TOH2TQ"65689260

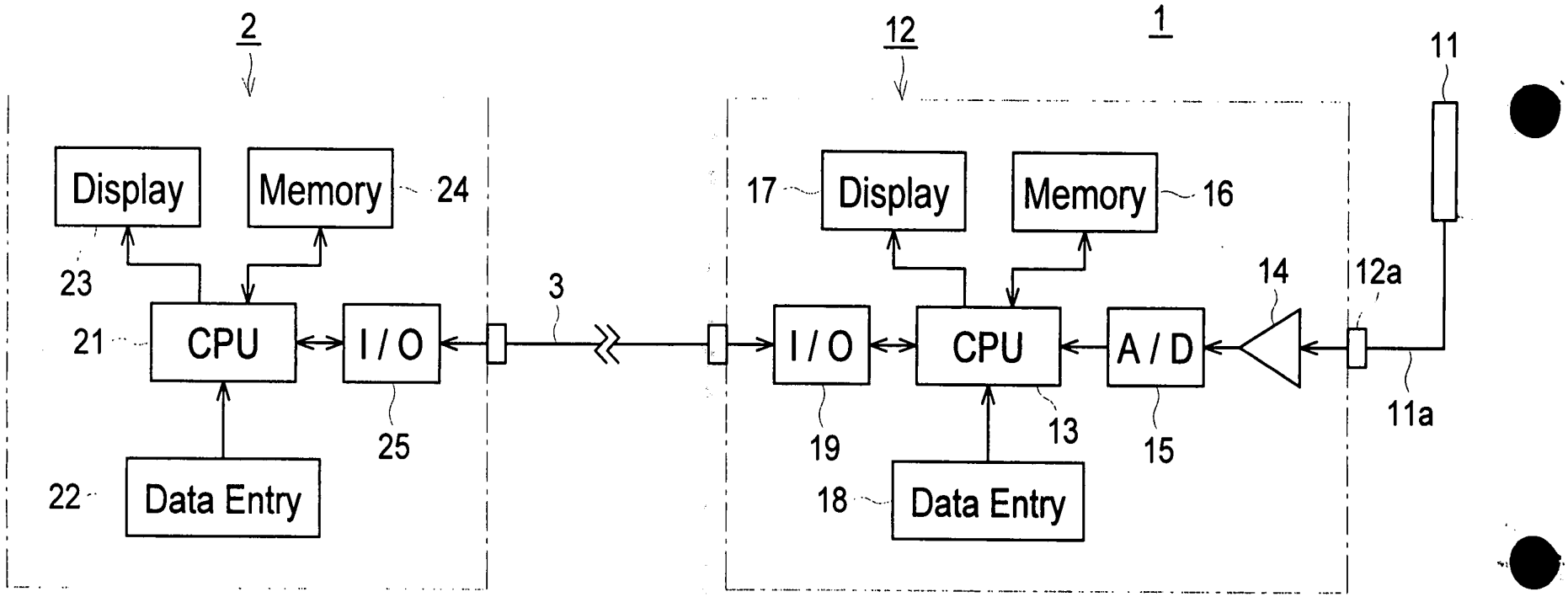

FIG.1

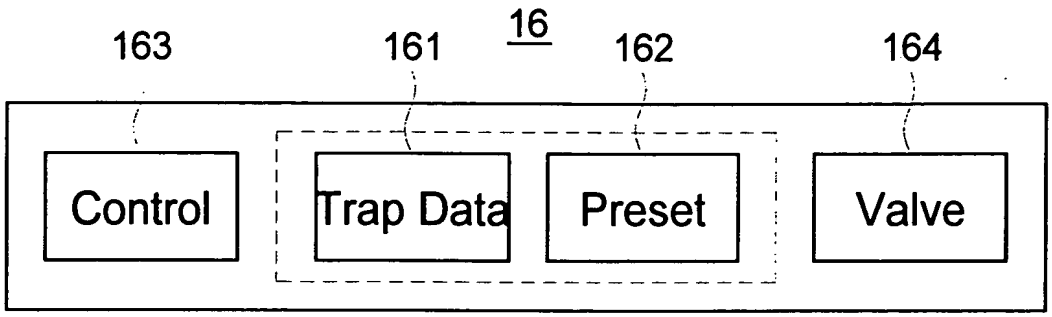

FIG.2

Trap Code	Model	Manufacturer	Trap Type	Processing Data D
0001	AAA	PQR	DISC	D_1
0002	BBB	PQR	BUCKET	D_2
0003	CCC	STU	DISC	D_3
0004	DDD	STU	FLOAT	D_4
0005	EEE	XYZ	FLOAT	D_5
⋮	⋮	⋮	⋮	⋮

FIG.3

0056050 - 0142501

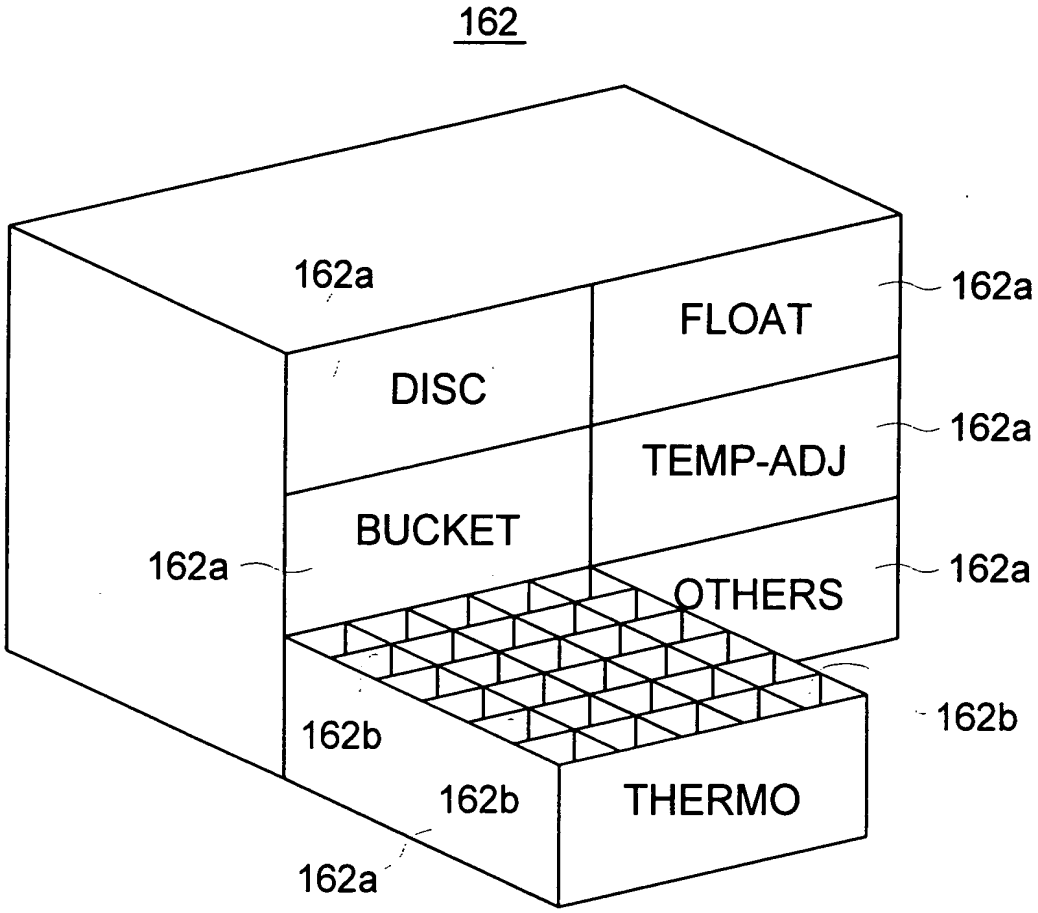

FIG.4

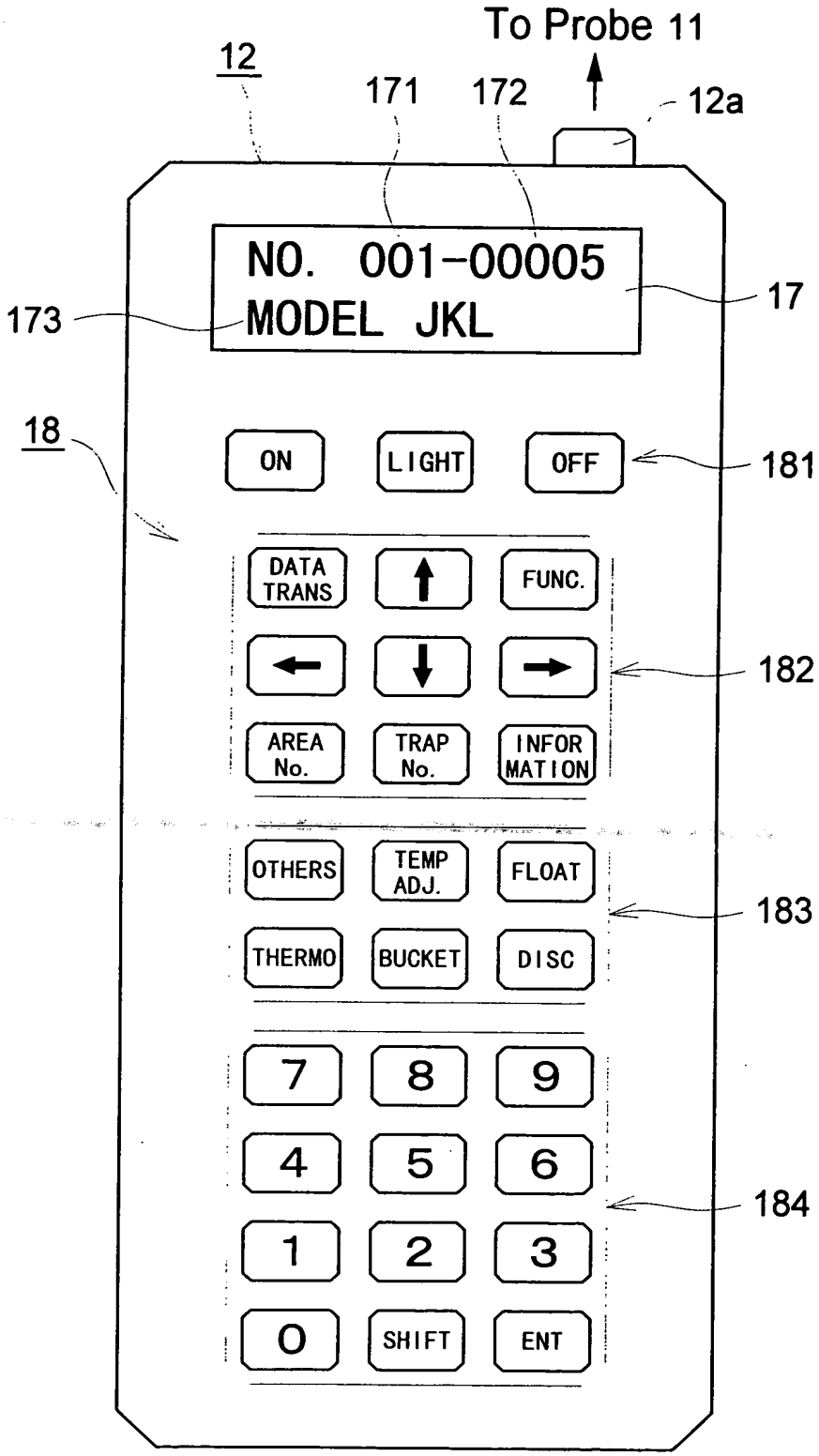
To Probe 11
12
171
172
12a
NO. 001-00005
MODEL JKL
173
17
18
ON
LIGHT
OFF
181
DATA TRANS
FUNC.
182
AREA No.
TRAP No.
INFOR MATION
OTHERS
TEMP ADJ.
FLOAT
183
THERMO
BUCKET
DISC
7
8
9
4
5
6
184
1
2
3
0
SHIFT
ENT

FIG.5

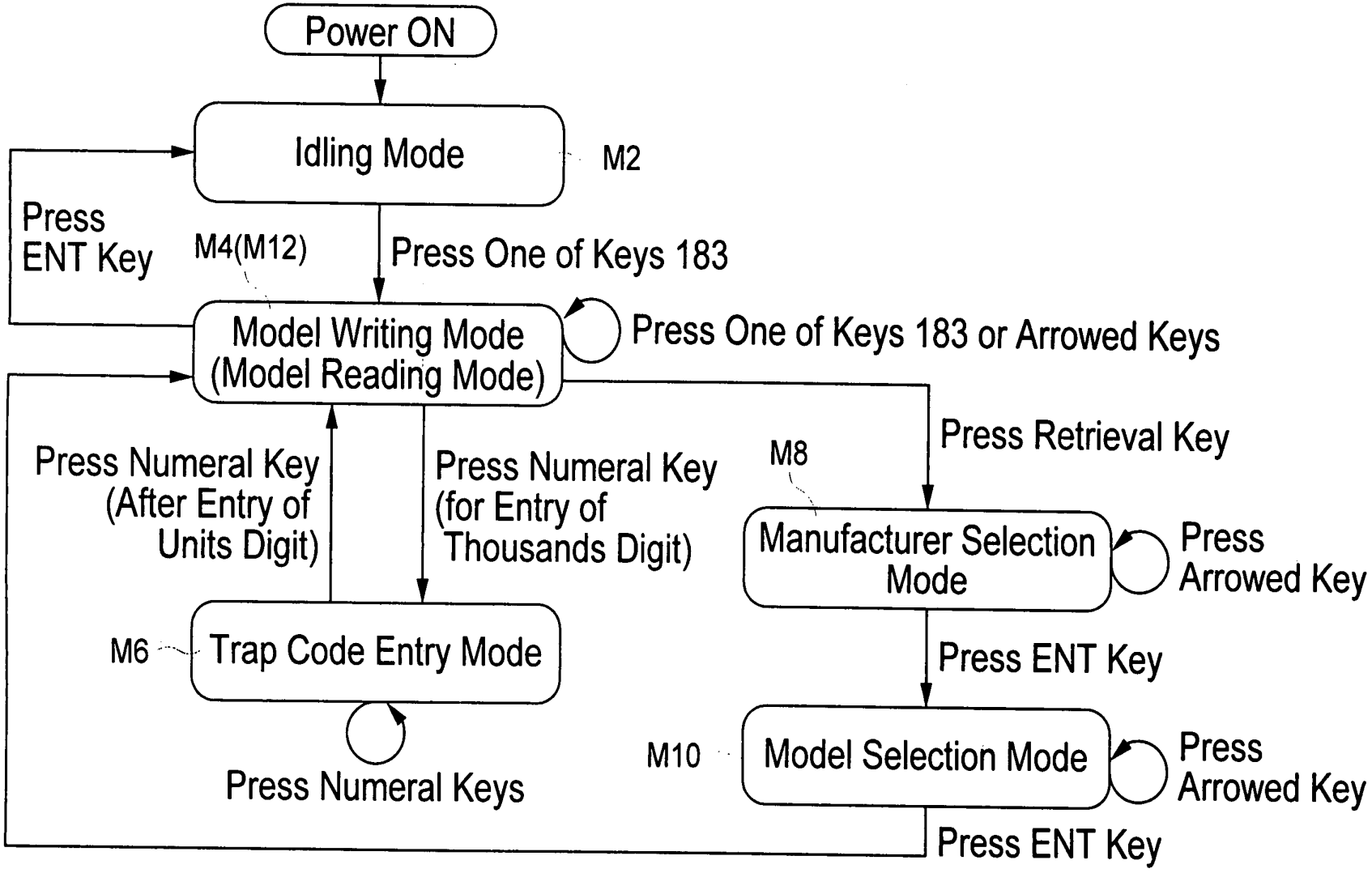
Power ON
Idling Mode
M2
Press
ENT Key
M4(M12)
Press One of Keys 183
Model Writing Mode
(Model Reading Mode)
Press One of Keys 183 or Arrowed Keys
Press Numeral Key
(After Entry of
Units Digit)
Press Numeral Key
(for Entry of
Thousands Digit)
M8
Press Retrieval Key
Manufacturer Selection
Mode
Press
Arrowed Key
M6
Trap Code Entry Mode
Press ENT Key
M10
Model Selection Mode
Press
Arrowed Key
Press Numeral Keys
Press ENT Key

FIG.6

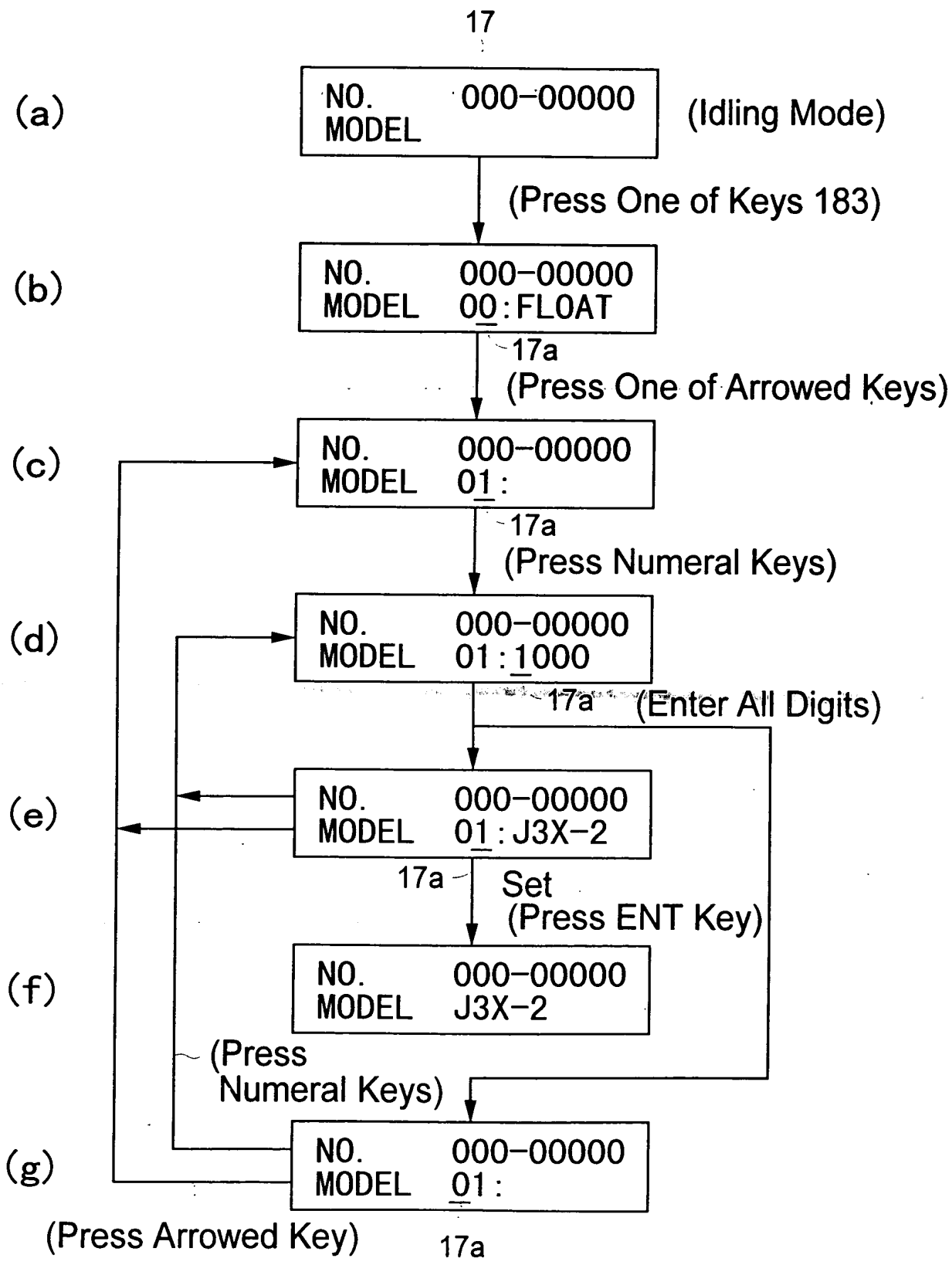
17
(a)
NO. 000-00000
MODEL
(Idling Mode)
(Press One of Keys 183)
(b)
NO. 000-00000
MODEL 00:FLOAT
17a
(Press One of Arrowed Keys)
(c)
NO. 000-00000
MODEL 01:
17a
(Press Numeral Keys)
(d)
NO. 000-00000
MODEL 01:1000
17a
(Enter All Digits)
(e)
NO. 000-00000
MODEL 01:J3X-2
17a
Set
(Press ENT Key)
(f)
NO. 000-00000
MODEL J3X-2
(Press
Numeral Keys)
(g)
NO. 000-00000
MODEL 01:
(Press Arrowed Key)
17a

FIG.7

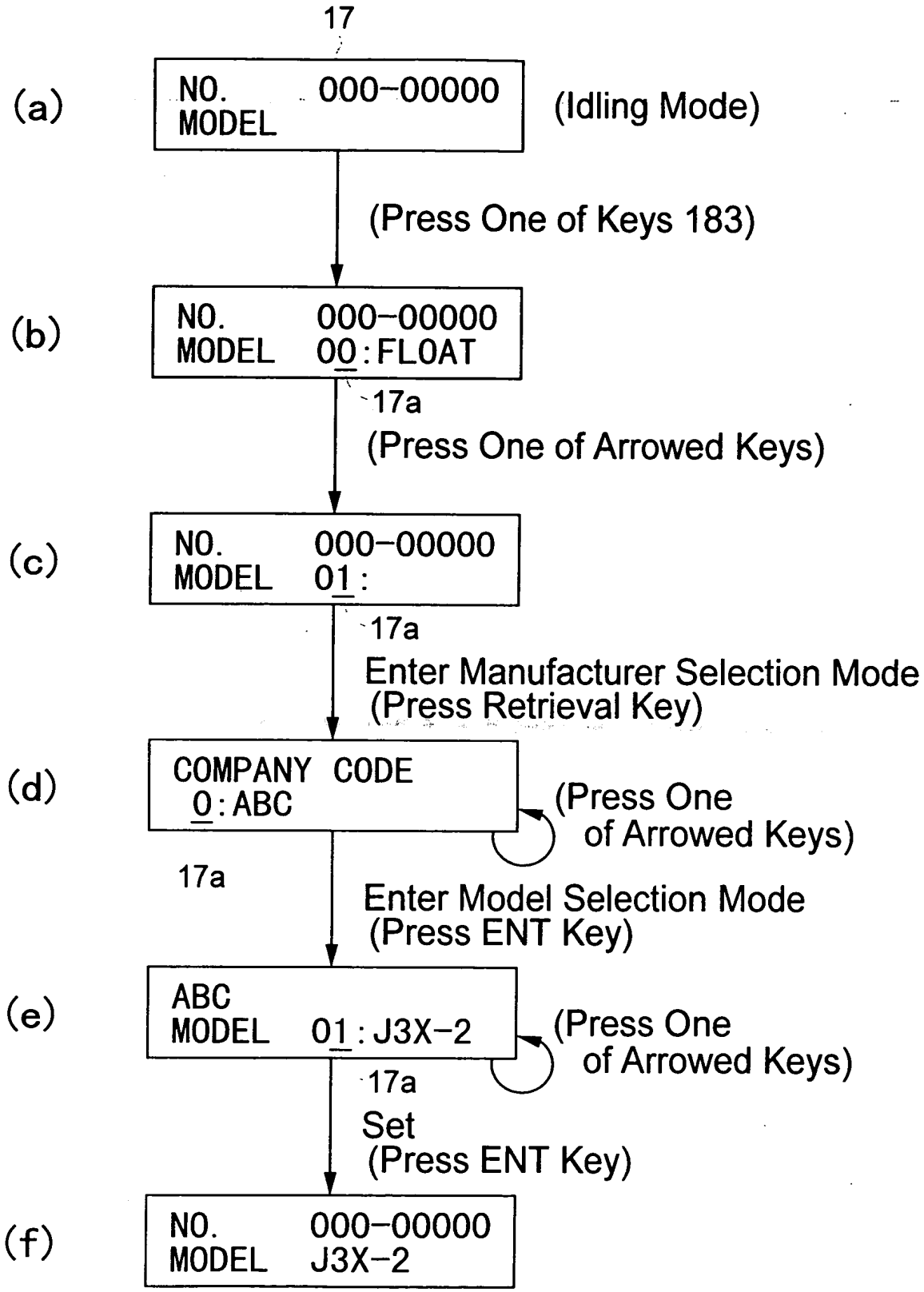
17
(a)
NO. 000-00000
MODEL
(Idling Mode)
(Press One of Keys 183)
(b)
NO. 000-00000
MODEL 00:FLOAT
17a
(Press One of Arrowed Keys)
(c)
NO. 000-00000
MODEL 01:
17a
Enter Manufacturer Selection Mode
(Press Retrieval Key)
(d)
COMPANY CODE
0:ABC
(Press One
of Arrowed Keys)
17a
Enter Model Selection Mode
(Press ENT Key)
(e)
ABC
MODEL 01:J3X-2
(Press One
of Arrowed Keys)
17a
Set
(Press ENT Key)
(f)
NO. 000-00000
MODEL J3X-2

FIG.8

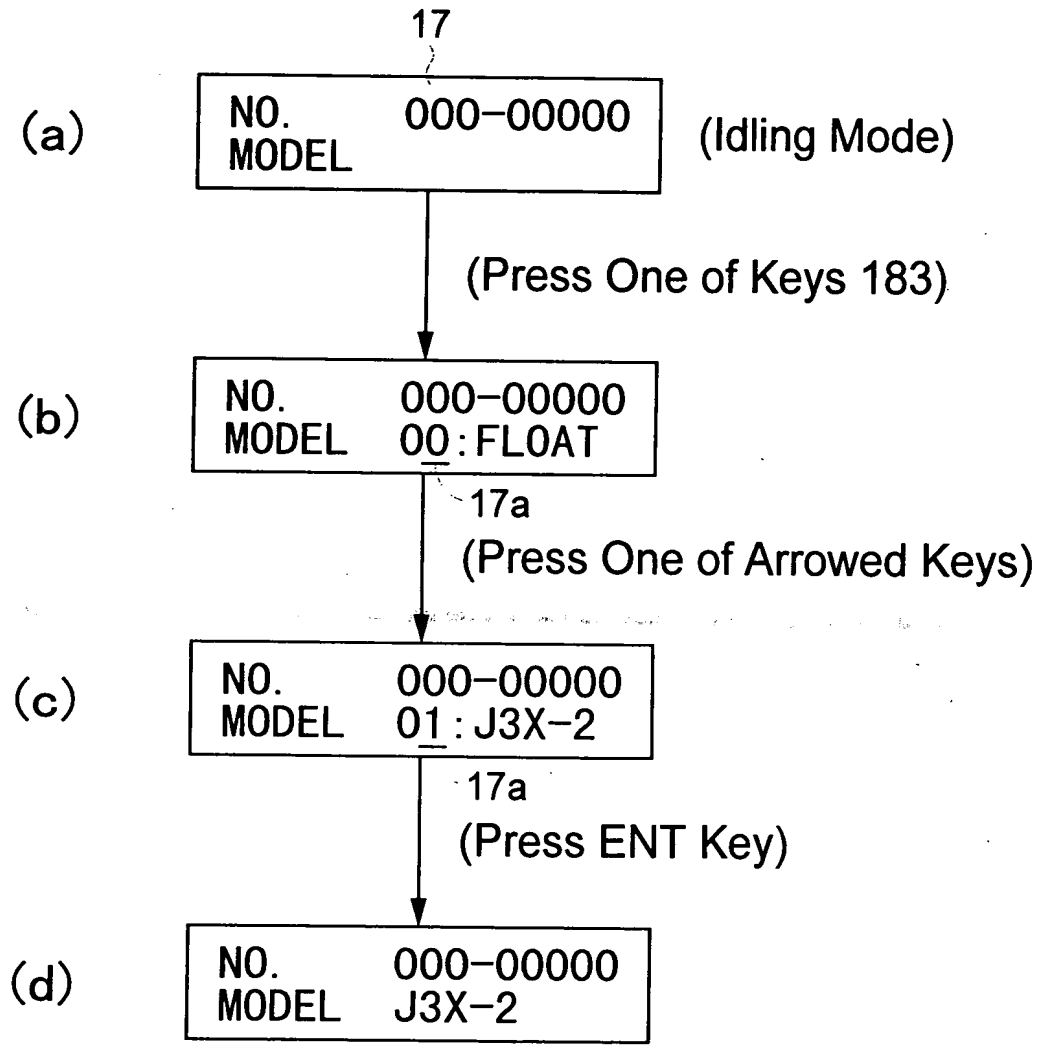
17
(a)
NO. 000-00000
MODEL
(Idling Mode)
(Press One of Keys 183)
(b)
NO. 000-00000
MODEL 00 : FLOAT
17a
(Press One of Arrowed Keys)
(c)
NO. 000-00000
MODEL 01 : J3X-2
17a
(Press ENT Key)
(d)
NO. 000-00000
MODEL J3X-2

FIG.9

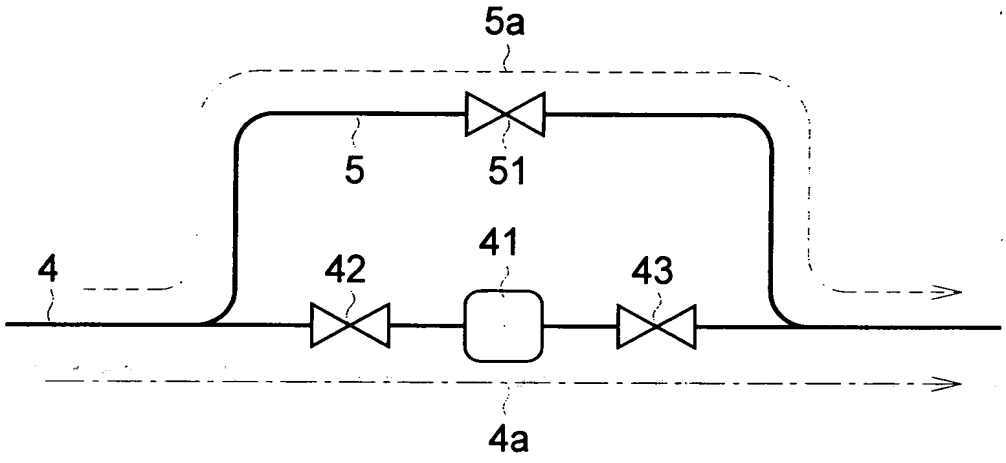

FIG.10

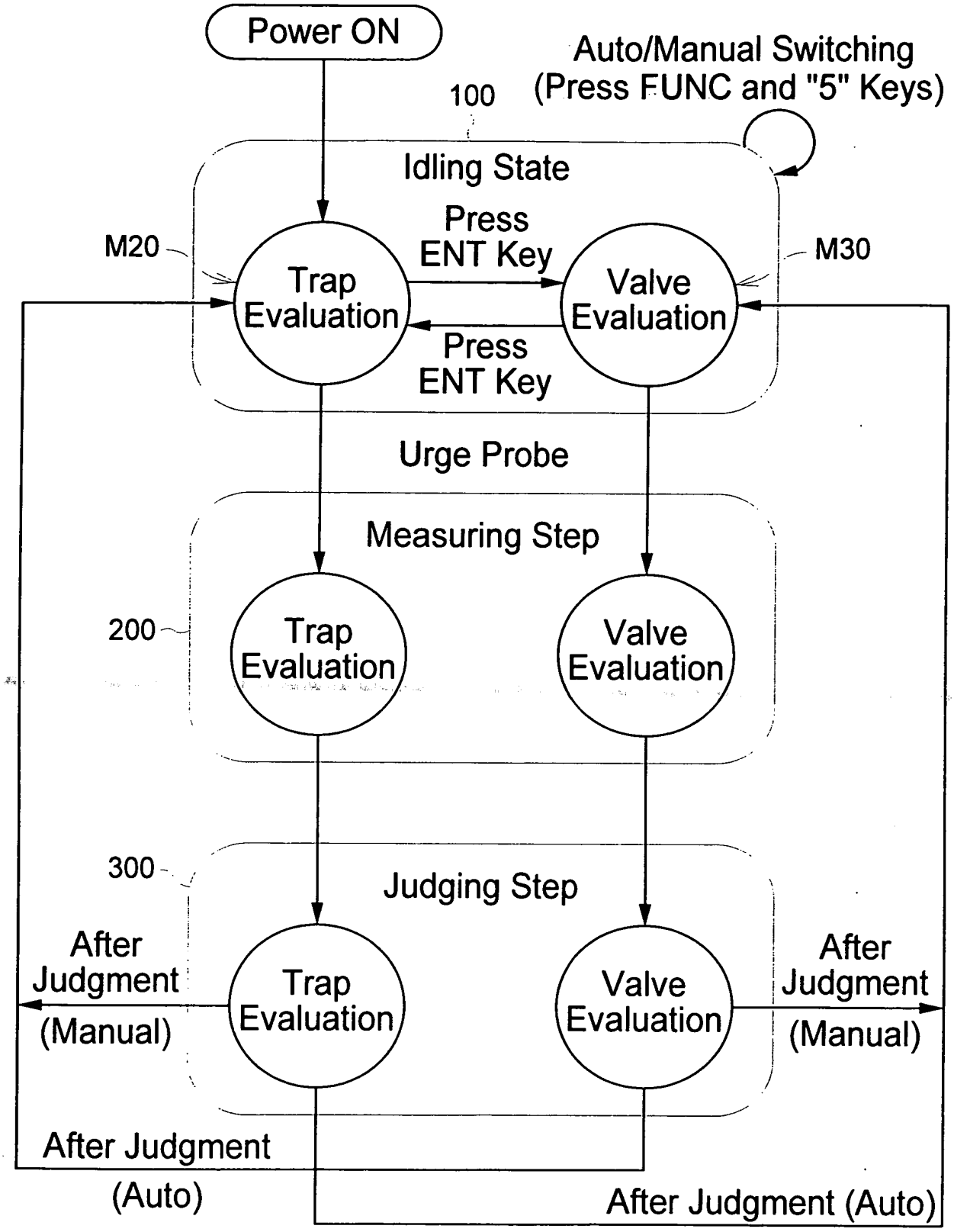
Power ON
Auto/Manual Switching
(Press FUNC and "5" Keys)
100
Idling State
Press
ENT Key
M20
Trap
Evaluation
Valve
Evaluation
M30
Press
ENT Key
Urge Probe
Measuring Step
200
Trap
Evaluation
Valve
Evaluation
300
Judging Step
After
Judgment
(Manual)
Trap
Evaluation
Valve
Evaluation
After
Judgment
(Manual)
After Judgment
(Auto)
After Judgment (Auto)

FIG.11

Data Name	Format	Size
STX	Hex code	1byte
Area No.	Dec	3bytes
Trap No.	Dec	5bytes
Trap Model	Dec	4bytes
Trap Type	Dec	1byte
Inspection Date	Dec	8bytes
Judgment	Dec	2bytes
Application	Dec	2bytes
Operational Pressure	Dec	3bytes
Priority	Dec	2bytes
⋮	⋮	⋮
User Original Data	Dec	3bytes
Check Sum	Hex	4bytes
ETB	Hex code	1byte
CR	Hex code	1byte

FIG.12

Area	Trap	Model	Trap Type	Inspection Date	Evaluation	Application	Pressure	Priority
001	00001	ABC	BUCKET	07/18/1997	Good	Heating	0-50	Important
001	00002	CDE	THERMO	07/18/1997	Good	Heating	0-50	Important
001	00003	EFG	TEMP.ADJ.	07/18/1997	Leak/M	Heating	0-50	Important
001	00004	GHI	TEMP.ADJ.	07/18/1997	Good	Heating	0-50	Important
001	00005	JKL	FLOAT	06/30/1997	Fail Adjust	Heating	0-50	Important
001	00006	GHI	TEMP.ADJ.	06/30/1997	Not Inspected	Heating	0-50	Important
001	00007	EFG	TEMP.ADJ.	06/30/1997	Leak/L	Heating	0-50	General
001	00008	CDE	THERMO	06/30/1997	Good	Heating	0-50	General
001	00009	CDE	THERMO	01/18/1997	Leak/S	Heating	0-50	General
001	00010	GHI	TEMP.ADJ.	01/18/1997	Good	Heating	0-50	General
001	00011	CDE	THERMO	01/18/1997	Good	Heating	0-50	General
001	00012	LMN	DISC	01/18/1997	Good	Drip	50-150	Important
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.13

TOH2TO" 65689260

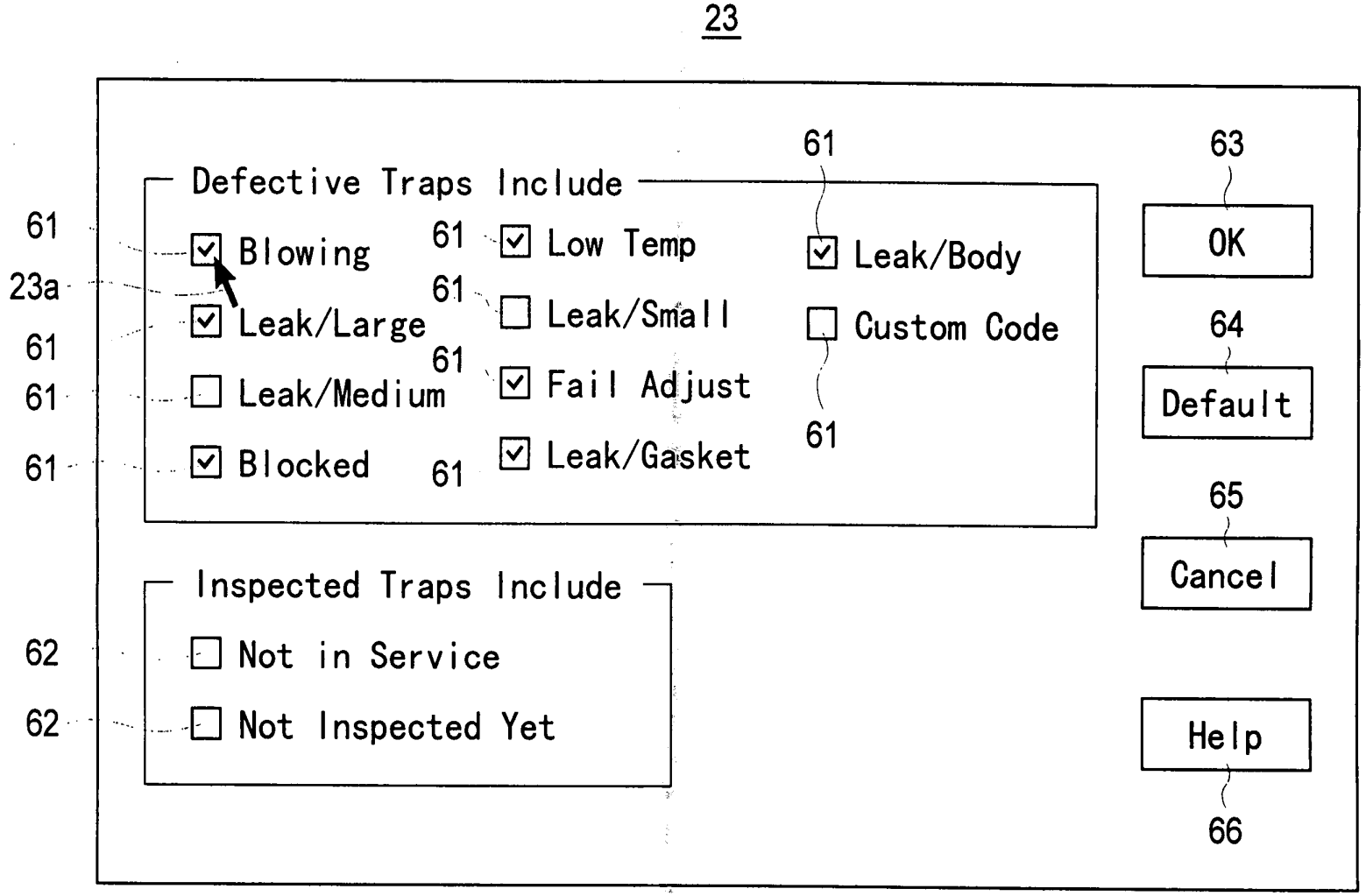

FIG.14

Area	Result	Trap	Model	Trap Type	Inspection Date	Application	Pressure	Loss($)
001	Defective	00005	JKL	FLOAT	06/30/1997	Heating	0-50	0.00
		00007	EFG	TEMP.ADJ.	06/30/1997	Heating	0-50	4.00
	Not Inspected	00006	GHI	TEMP.ADJ.	06/30/1997	Heating	0-50	0.00
	Good	00001	ABC	BUCKET	07/18/1997	Heating	0-50	0.00
		00002	CDE	THERMO	07/18/1997	Heating	0-50	0.00
		00003	EFG	TEMP.ADJ.	07/18/1997	Heating	0-50	2.00
		00004	GHI	TEMP.ADJ.	07/18/1997	Heating	0-50	0.00
		00008	CDE	THERMO	06/30/1997	Heating	0-50	0.00
		00009	CDE	THERMO	01/18/1997	Heating	0-50	1.00
		00010	GHI	TEMP.ADJ.	01/18/1997	Heating	0-50	0.00
		00011	CDE	THERMO	01/18/1997	Heating	0-50	0.00
		00012	LMN	DISC	01/18/1997	Drip	50-150	0.00
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.15

EP 2 568 760 A1

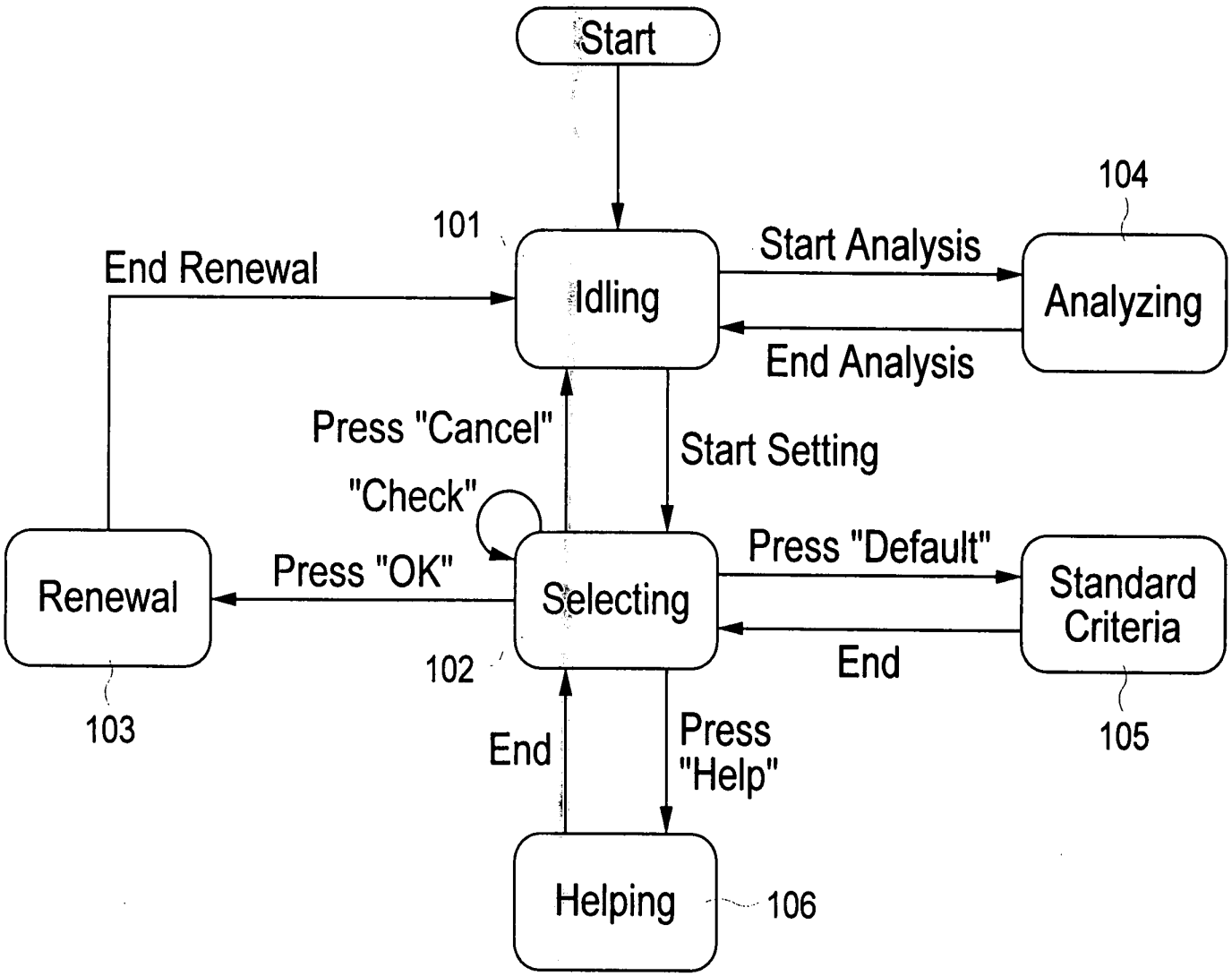

FIG.16

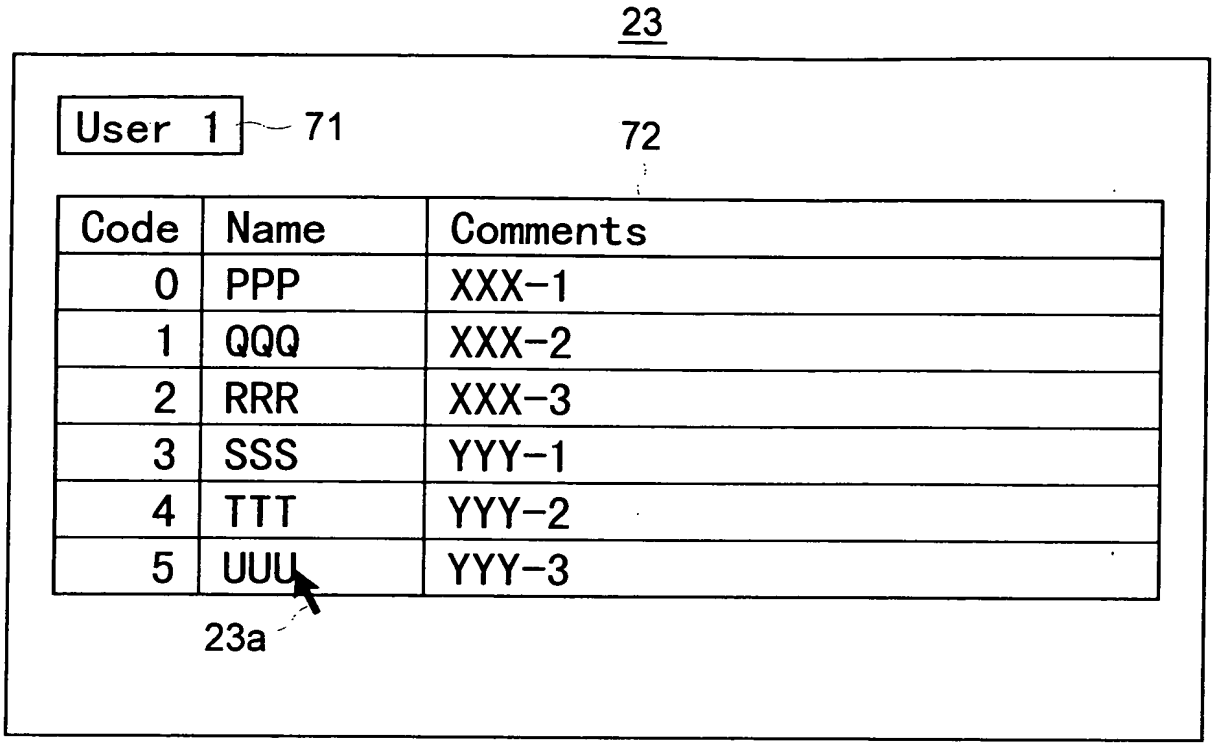

FIG.17 (a)

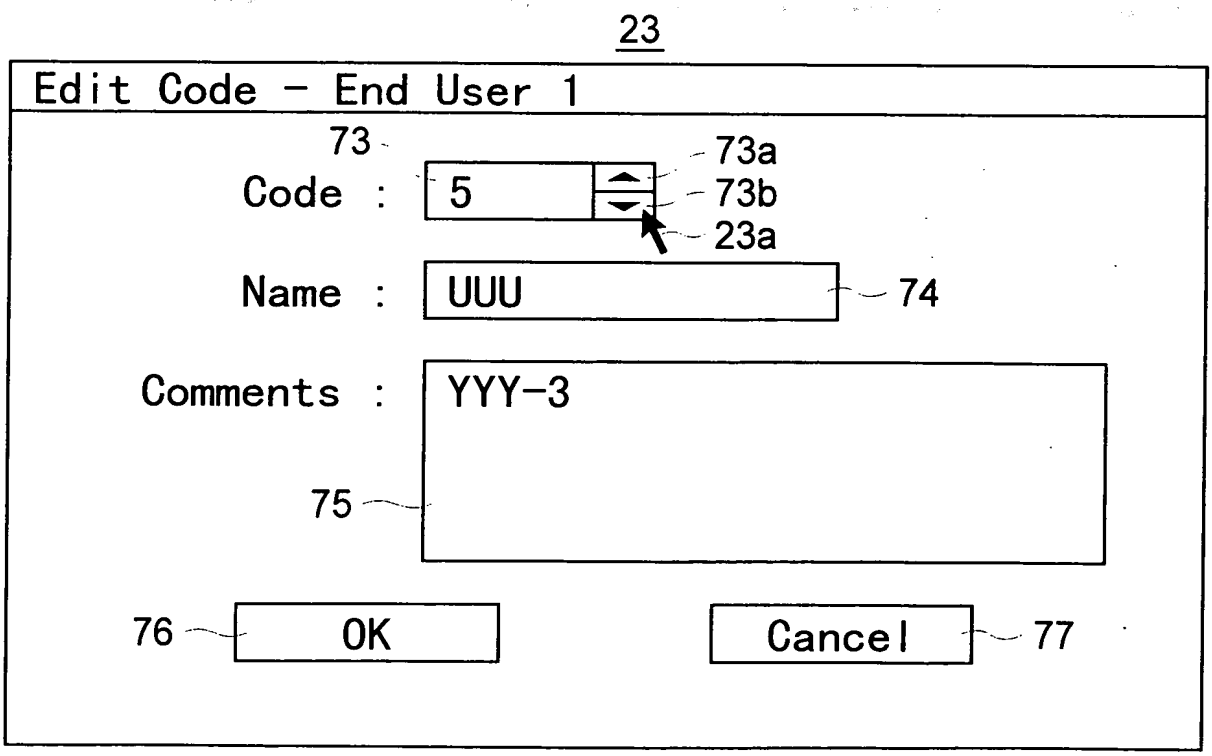

FIG.17 (b)

Area	Trap	Model	Processing Data	Manufacturer	Month of Use	User-1	Note
001	00001	ABC	D_{11}	PQR	0-12	PPP	********
001	00002	CDE	D_{12}	XYZ	0-12	PPP	********
001	00003	EFG	D_{13}	XYZ	0-12	PPP	********
001	00004	GHI	D_{14}	PQR	0-12	PPP	
001	00005	JKL	D_{15}	PQR	0-12	PPP	********
001	00006	GHI	D_{14}	PQR	0-12	PPP	
001	00007	EFG	D_{13}	XYZ	12-24	QQQ	
001	00008	CDE	D_{12}	XYZ	12-24	QQQ	
001	00009	CDE	D_{12}	XYZ	12-24	QQQ	********
001	00010	GHI	D_{14}	PQR	12-24	SSS	********
001	00011	CDE	D_{12}	XYZ	12-24	SSS	
001	00012	LMN	D_{16}	PQR	0-12	UUU	********
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.18

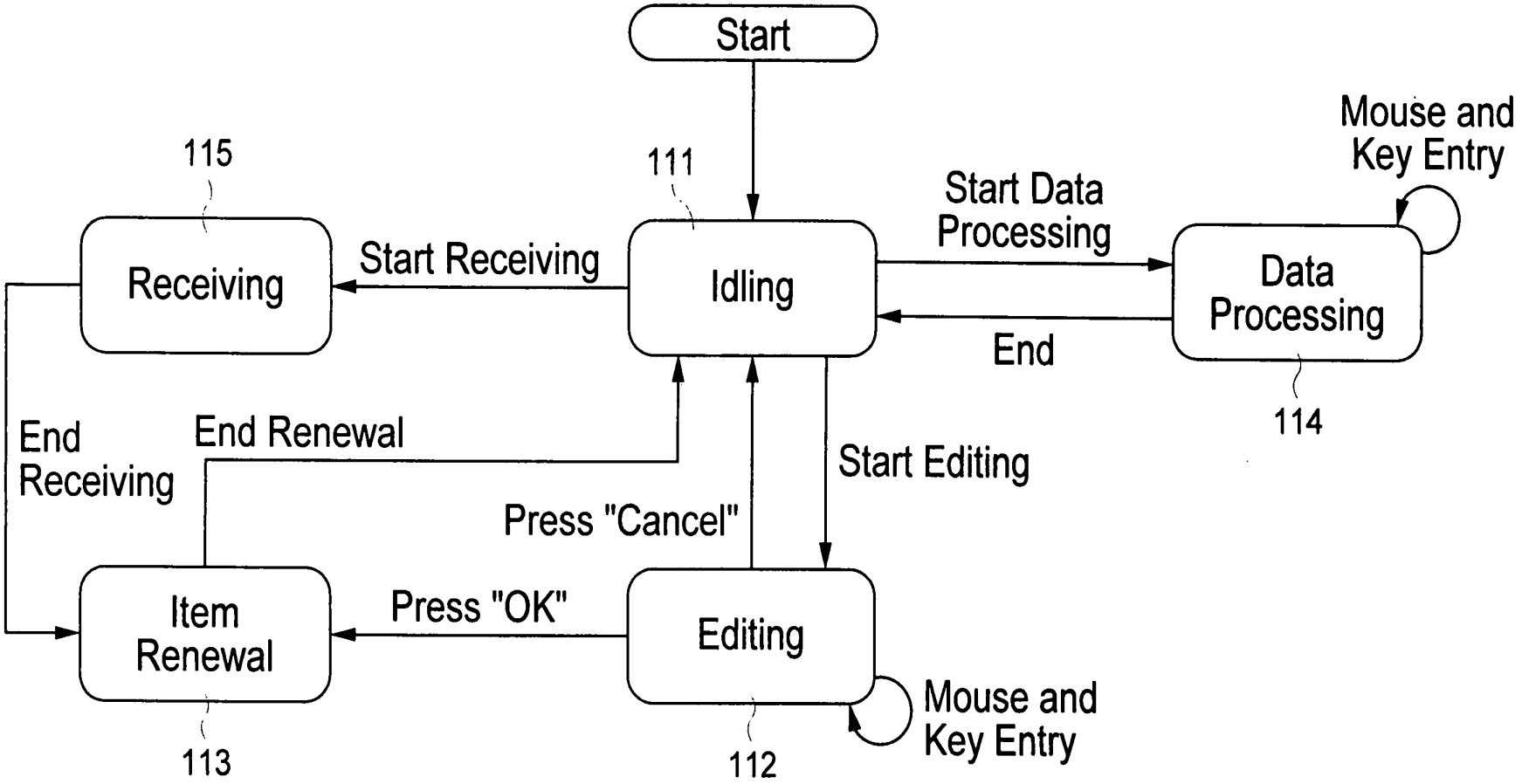
Start
115
111
Mouse and
Key Entry
Start Data
Processing
Receiving
Start Receiving
Idling
Data
Processing
End
114
End
Receiving
End Renewal
Start Editing
Press "Cancel"
Item
Renewal
Press "OK"
Editing
Mouse and
Key Entry
113
112

FIG.19

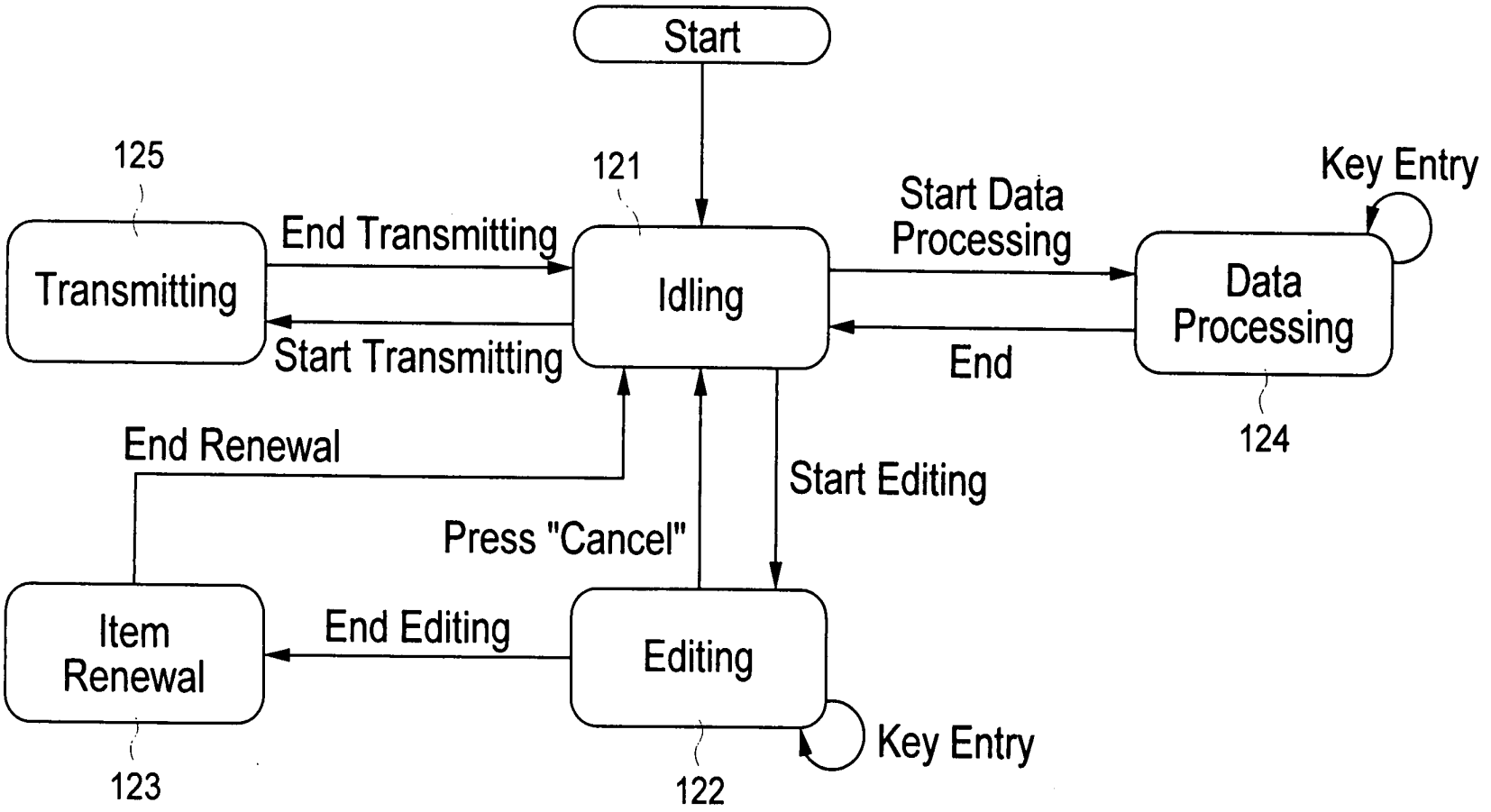
Start
125
121
Key Entry
End Transmitting
Start Data Processing
Transmitting
Idling
Data Processing
Start Transmitting
End
124
End Renewal
Start Editing
Press "Cancel"
Item Renewal
End Editing
Editing
Key Entry
123
122

FIG.20

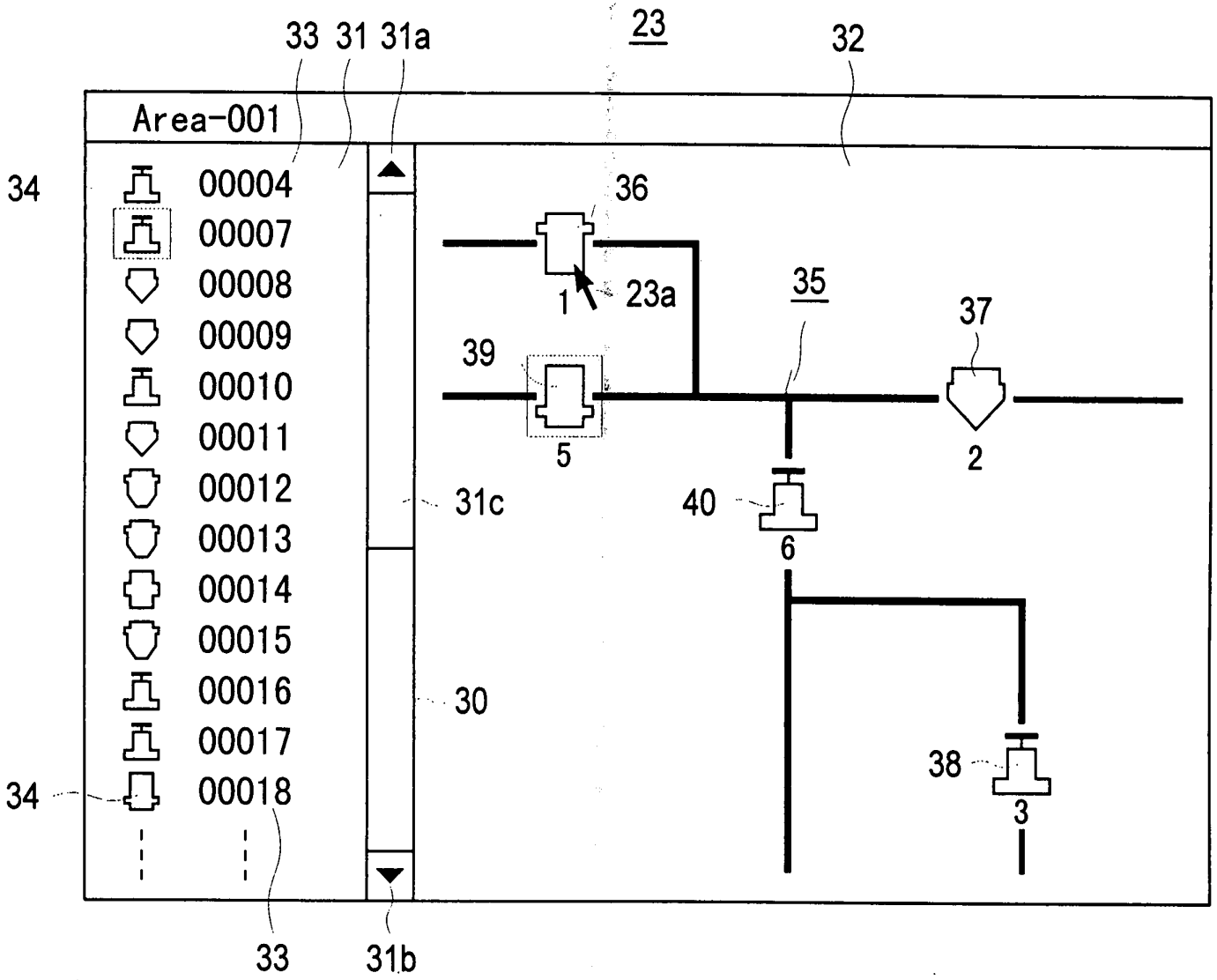
23
33
31
31a
32
Area-001
34
00004
00007
00008
00009
00010
00011
00012
00013
00014
00015
00016
00017
00018
36
1
23a
35
37
39
5
2
31c
40
6
30
38
3
34
33
31b

FIG.21

TOHZTO"6568976O

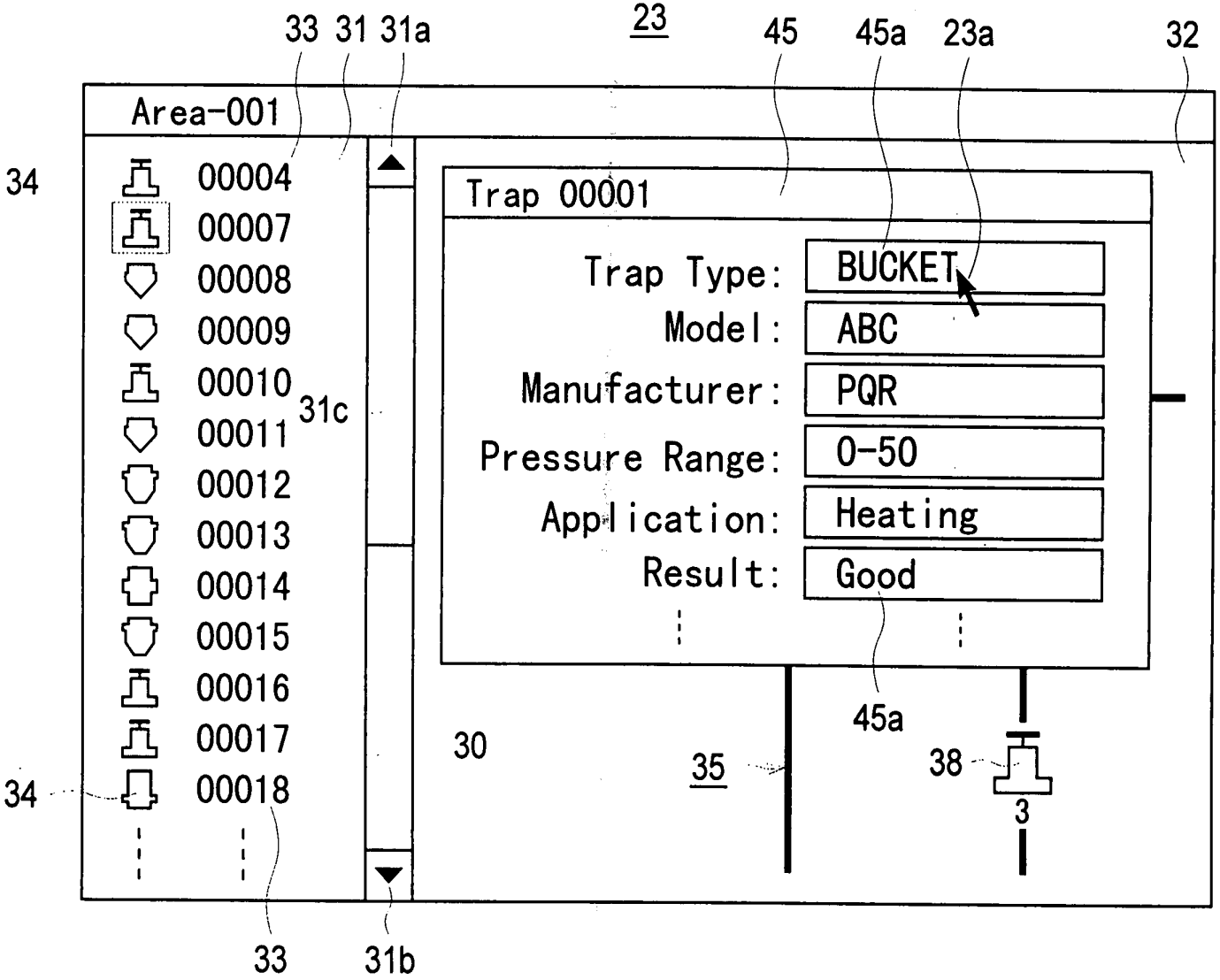

FIG.22

JP2020065689760

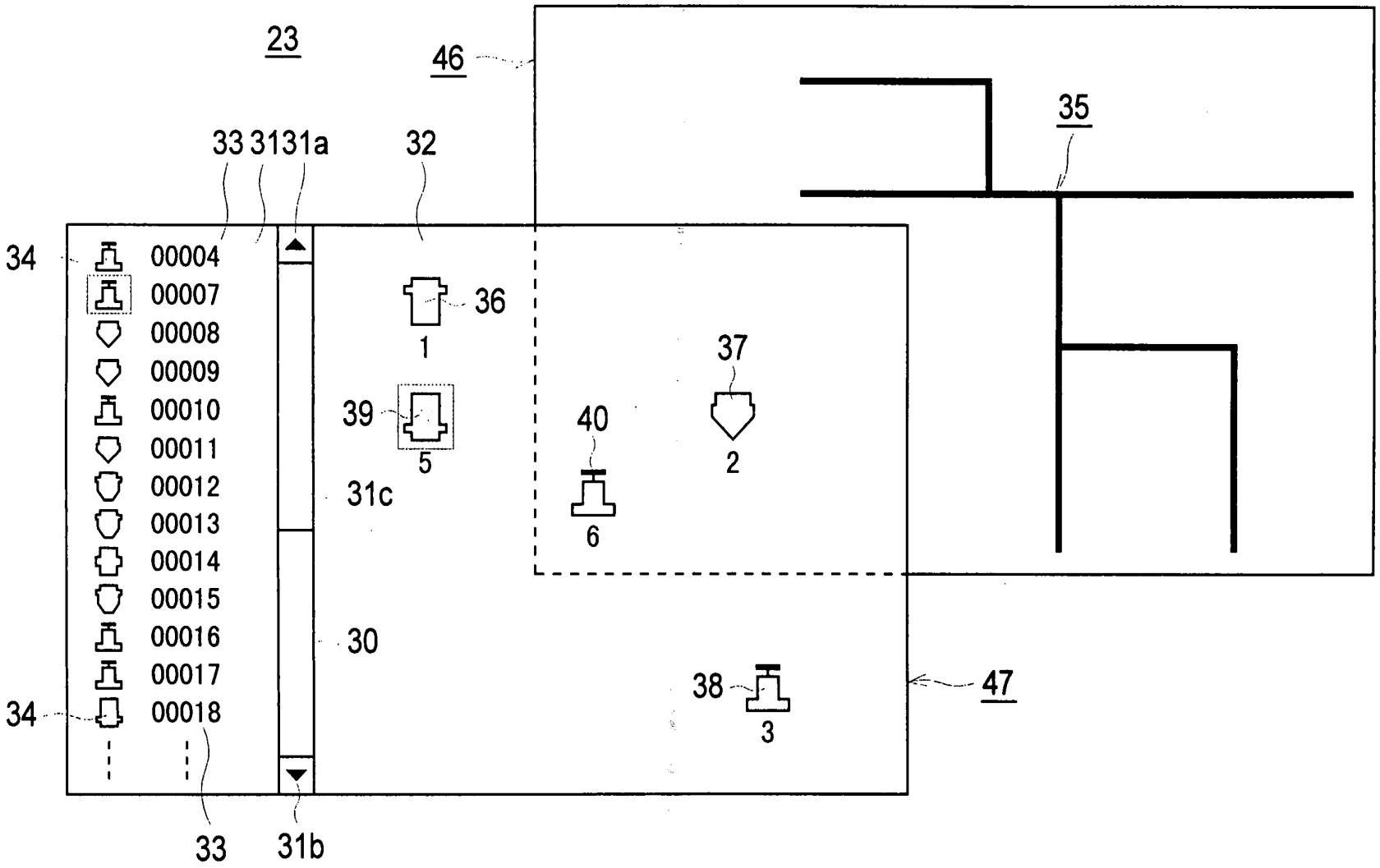

FIG.23

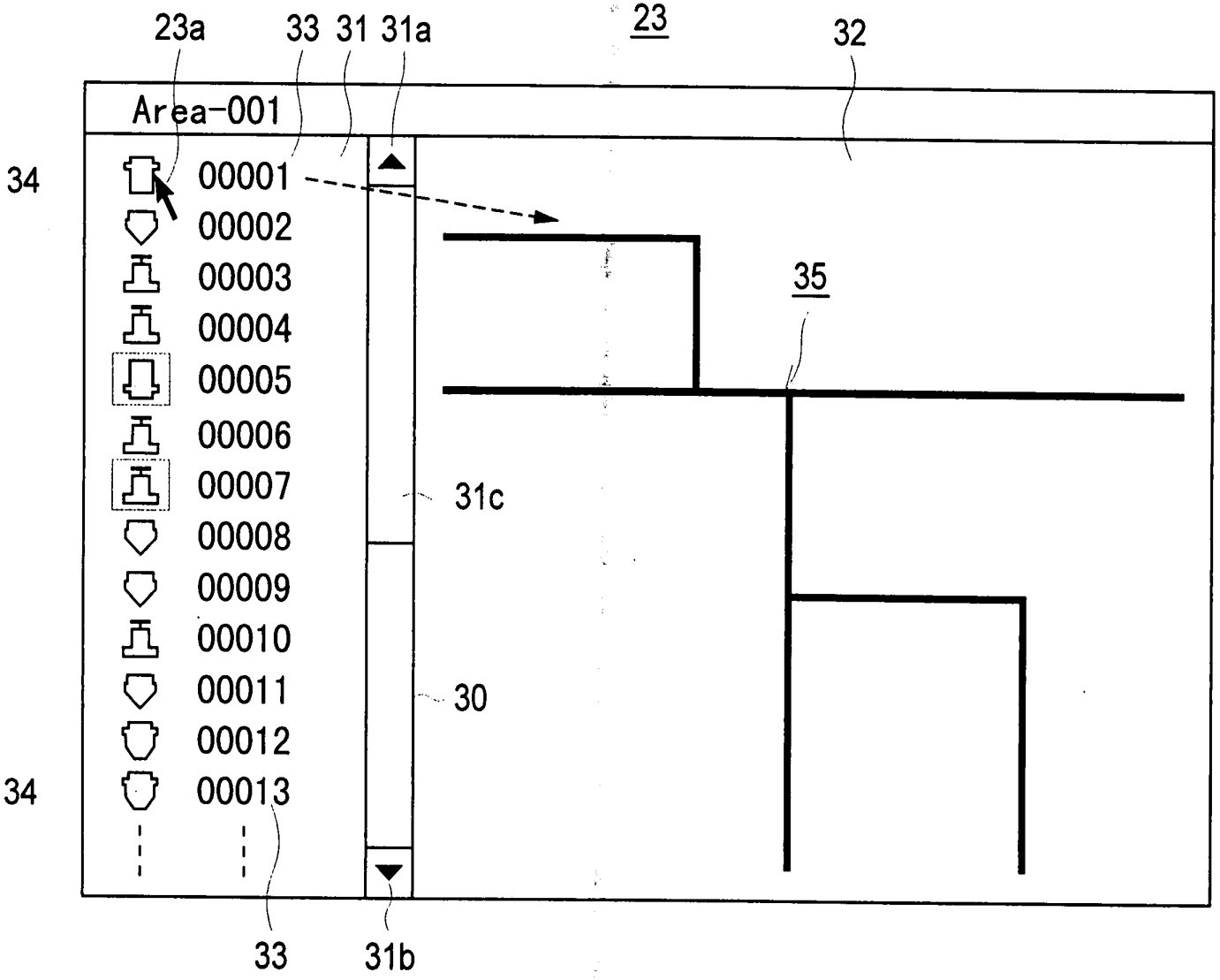
23a
33
31
31a
23
32
Area-001
34
00001
00002
00003
00004
00005
00006
00007
00008
00009
00010
00011
00012
34
00013
35
31c
30
33
31b

FIG.24

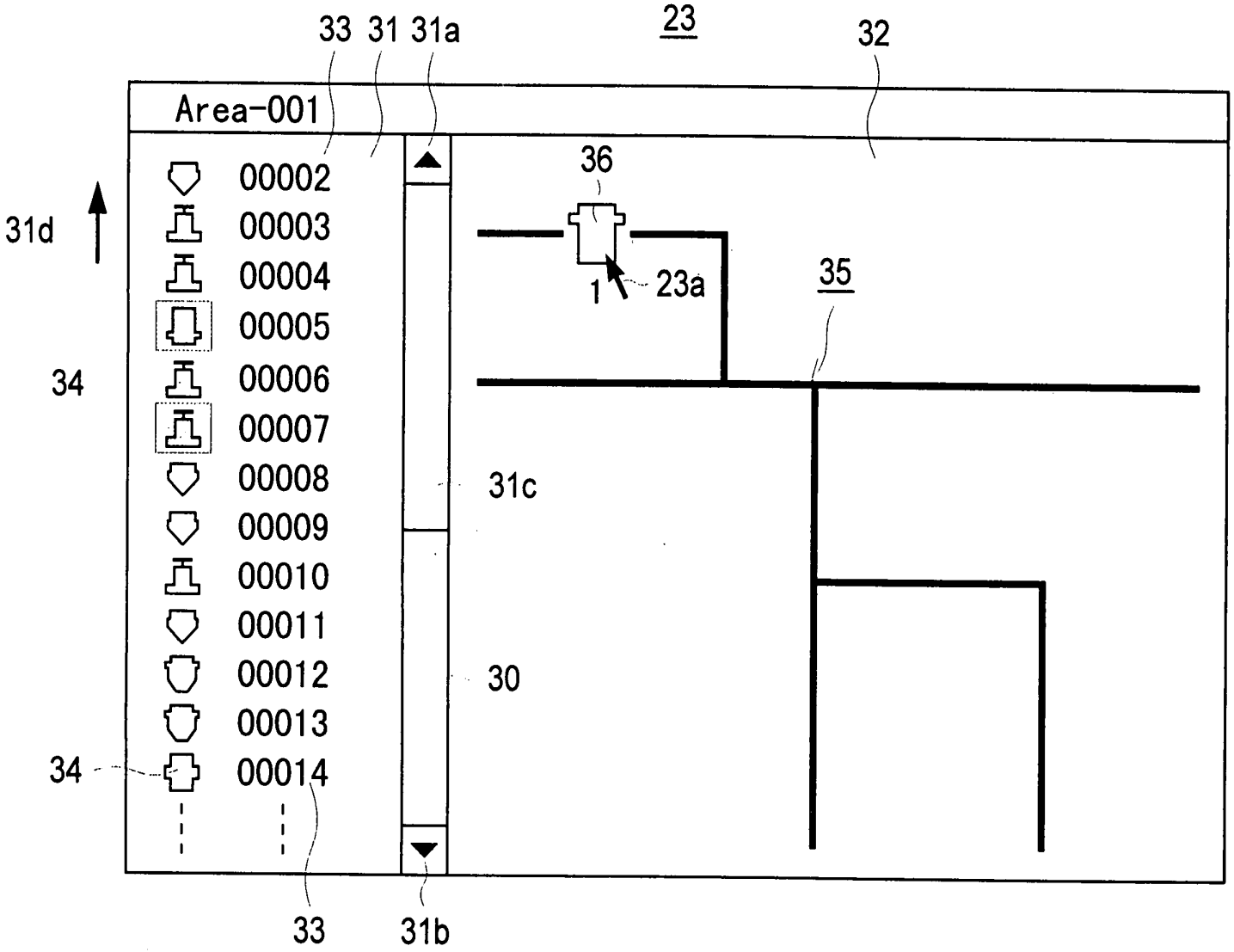
23
33
31
31a
32
Area-001
00002
00003
00004
00005
00006
00007
00008
00009
00010
00011
00012
00013
00014
31d
34
34
36
1
23a
35
31c
30
33
31b

FIG.25

TOKYO 6568760

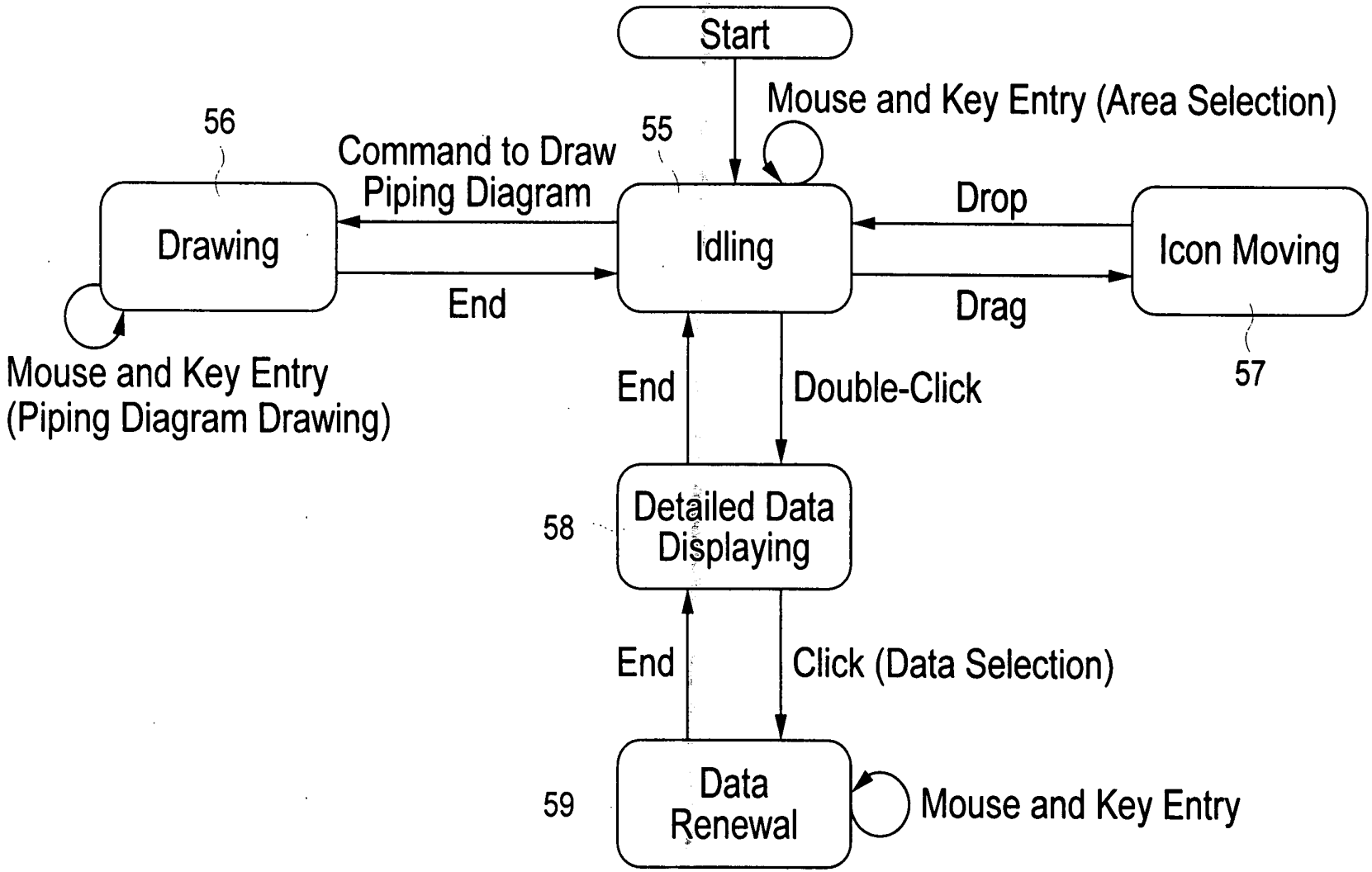

FIG.26

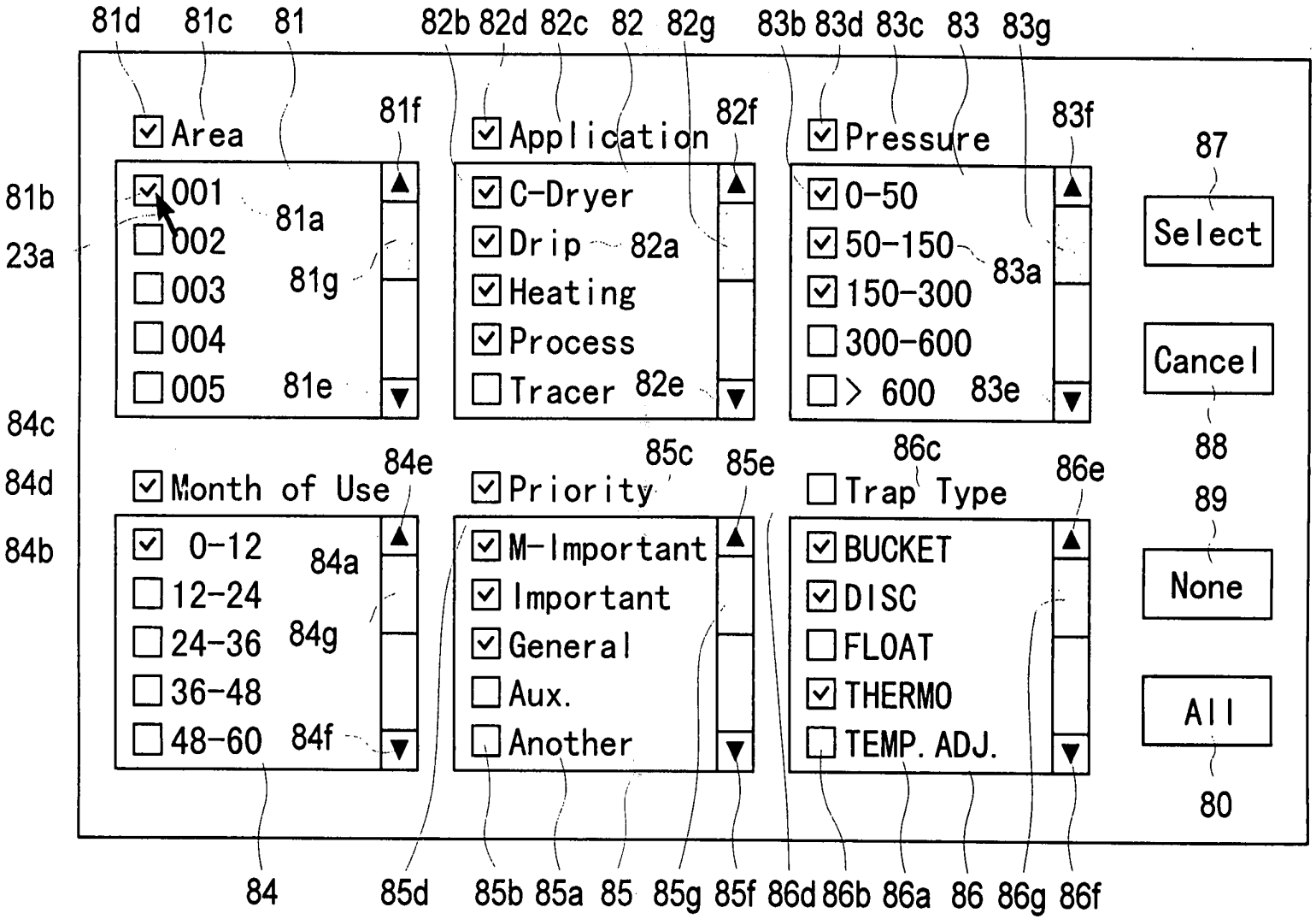
81d
81c
81
82b
82d
82c
82
82g
83b
83d
83c
83
83g
Area
81f
Application
82f
Pressure
83f
87
81b
001
81a
C-Dryer
Drip
82a
0-50
50-150
83a
150-300
Select
23a
002
003
81g
Heating
Process
300-600
Cancel
004
005
81e
Tracer
82e
> 600
83e
84c
88
84d
84e
85c
85e
86c
86e
Month of Use
Priority
Trap Type
89
84b
0-12
84a
M-Important
BUCKET
None
12-24
Important
DISC
24-36
84g
General
FLOAT
36-48
Aux.
THERMO
All
48-60
84f
Another
TEMP. ADJ.
80
84
85d
85b
85a
85
85g
85f
86d
86b
86a
86
86g
86f

FIG.27

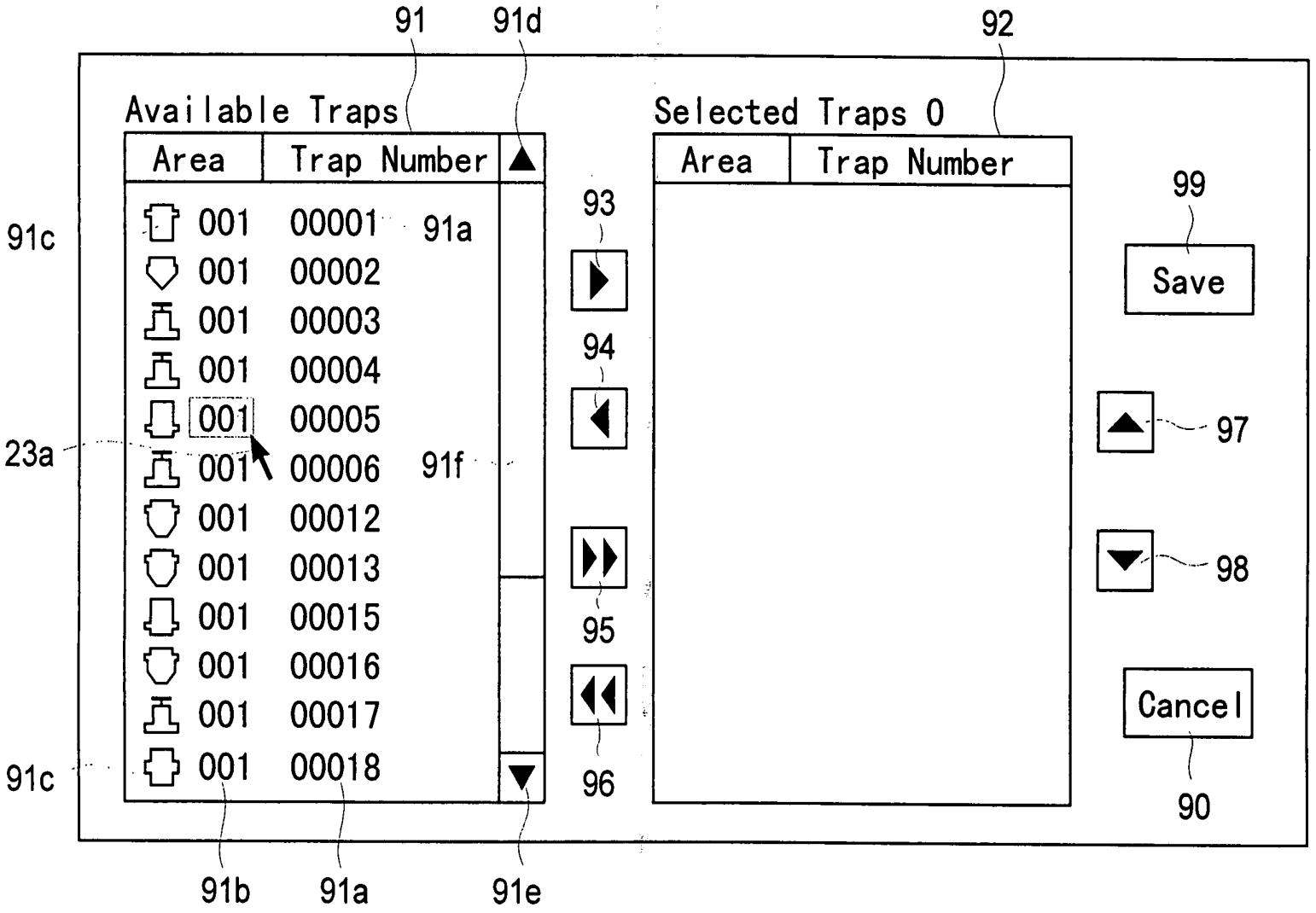
91
91d
92
Available Traps
Area
Trap Number
Selected Traps 0
Area
Trap Number
91c
001 00001
91a
001 00002
001 00003
001 00004
001 00005
23a
001 00006
91f
001 00012
001 00013
001 00015
001 00016
001 00017
91c
001 00018
93
94
95
96
99
Save
97
98
Cancel
90
91b
91a
91e

FIG.28

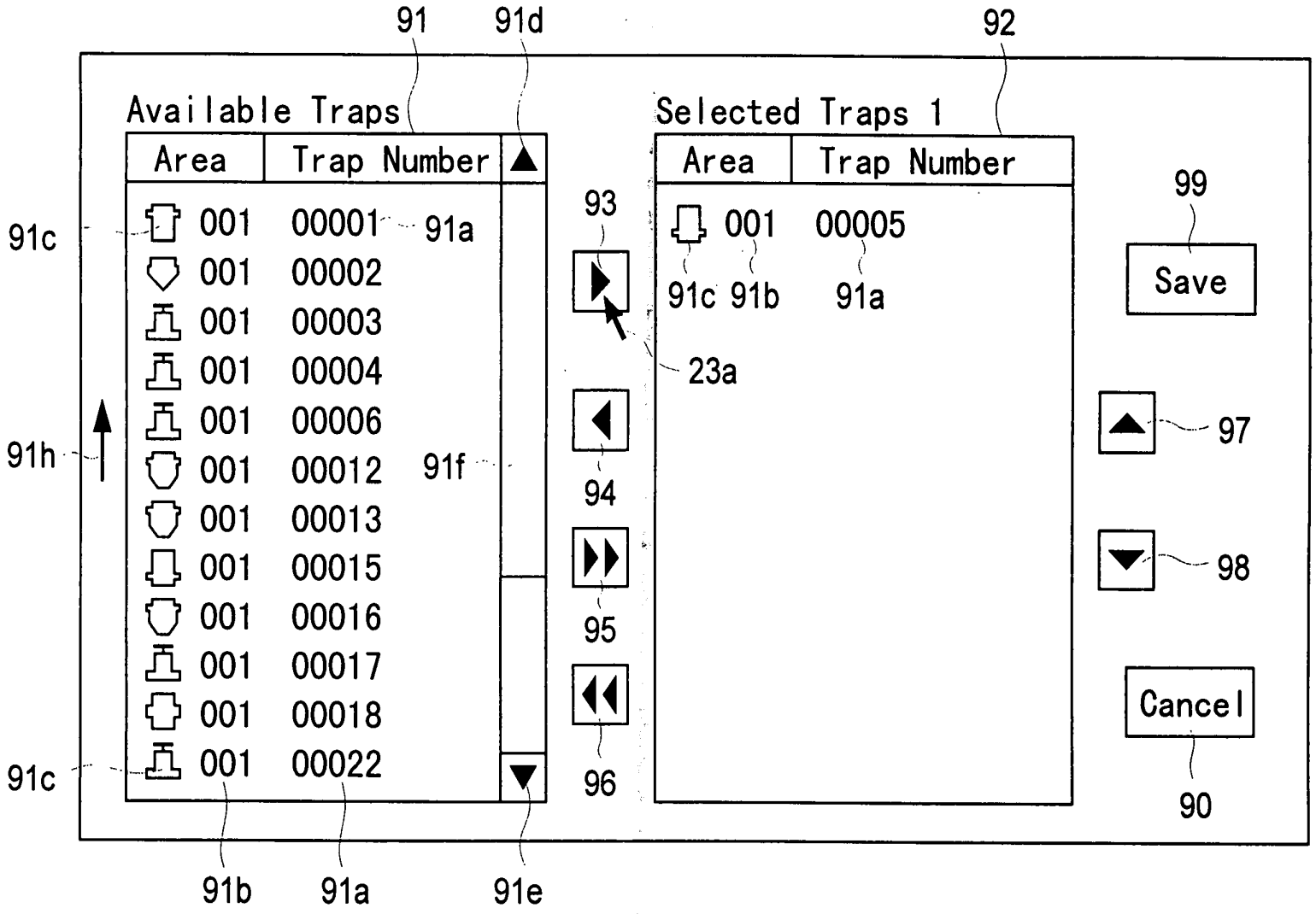
91
91d
92
Available Traps
Area
Trap Number
001 00001
001 00002
001 00003
001 00004
001 00006
001 00012
001 00013
001 00015
001 00016
001 00017
001 00018
001 00022
Selected Traps 1
Area
Trap Number
001 00005
91c
91b
91a
91f
91h
93
94
95
96
23a
99
Save
97
98
Cancel
90

FIG.29

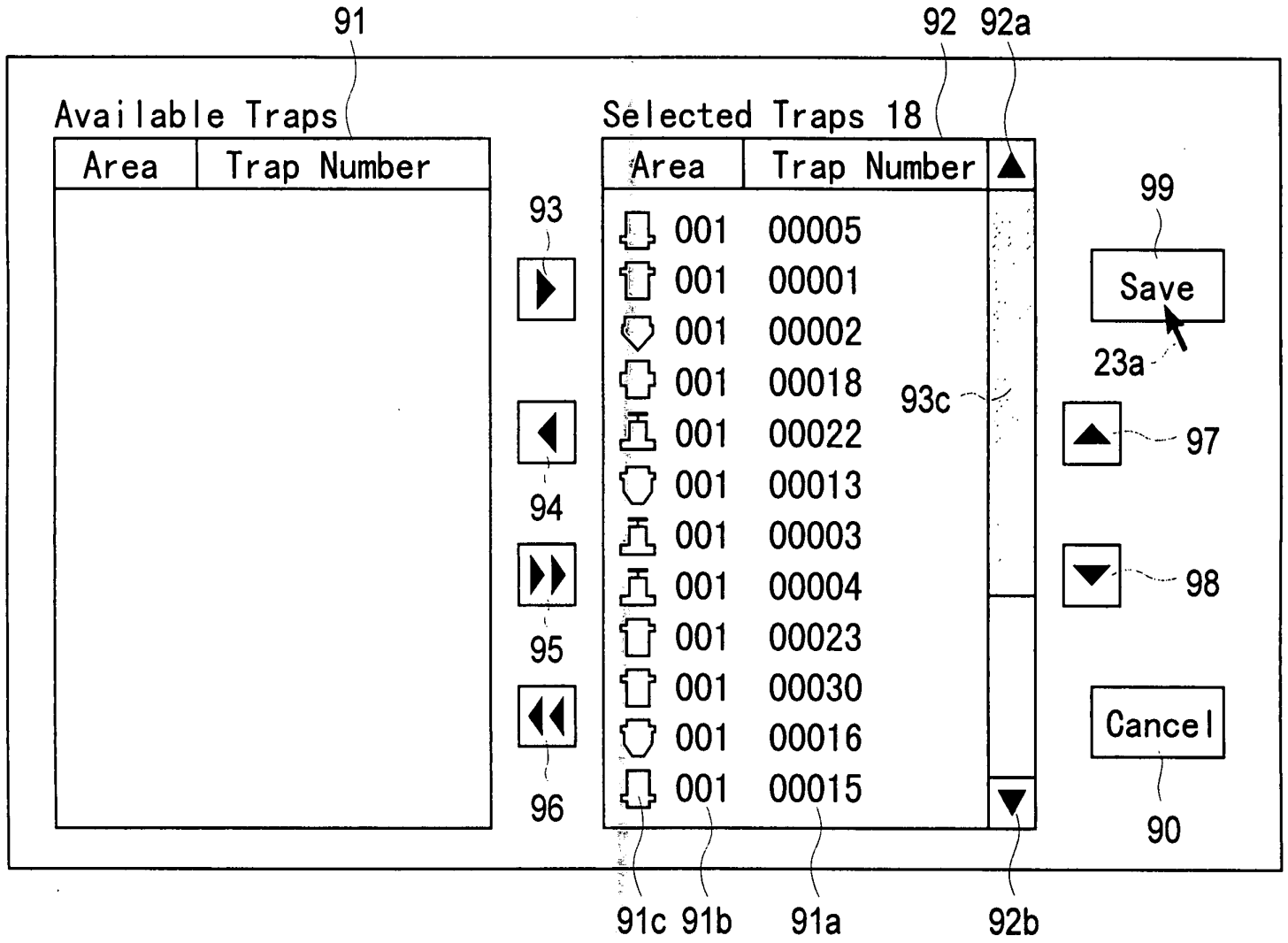
91
92
92a
Available Traps
Area
Trap Number
Selected Traps 18
Area
Trap Number
001 00005
001 00001
001 00002
001 00018
001 00022
001 00013
001 00003
001 00004
001 00023
001 00030
001 00016
001 00015
93
94
95
96
93c
99
Save
23a
97
98
Cancel
90
91c
91b
91a
92b

FIG.30

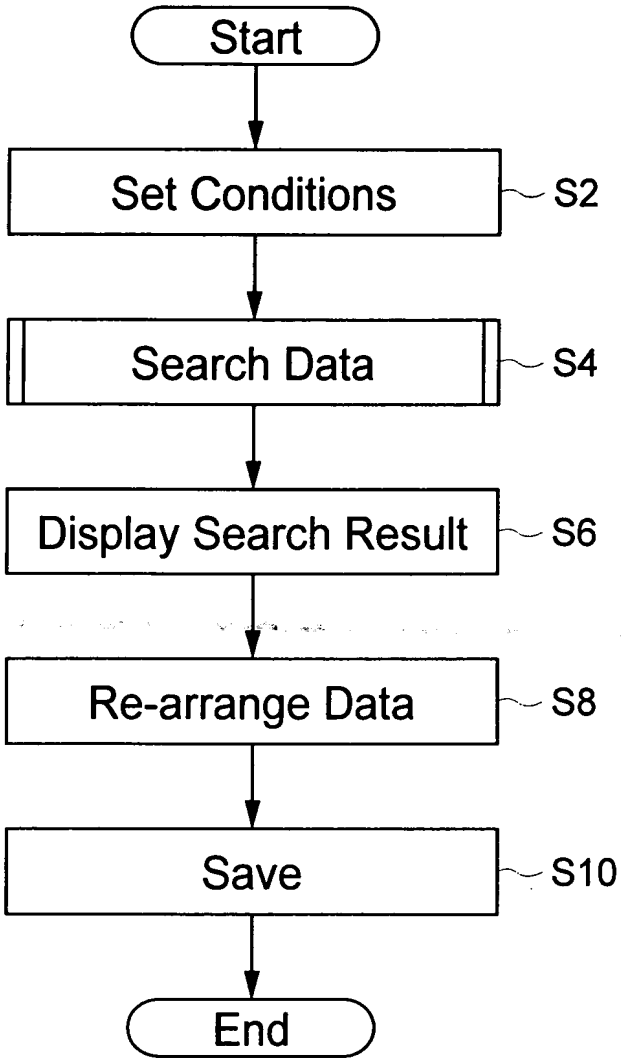
Start
Set Conditions
S2
Search Data
S4
Display Search Result
S6
Re-arrange Data
S8
Save
S10
End

FIG.31

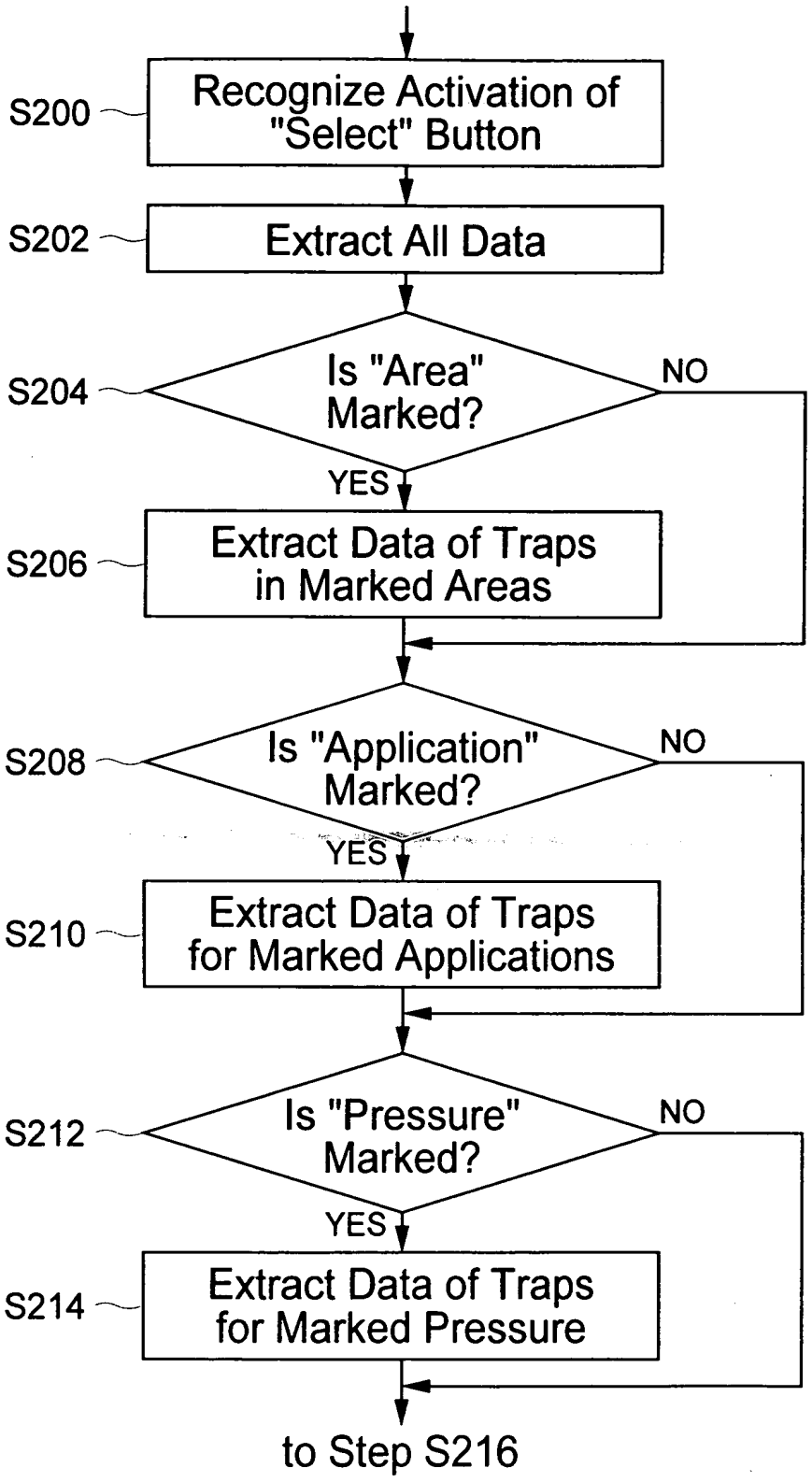
S200
Recognize Activation of "Select" Button
S202
Extract All Data
S204
Is "Area" Marked?
NO
YES
S206
Extract Data of Traps in Marked Areas
S208
Is "Application" Marked?
NO
YES
S210
Extract Data of Traps for Marked Applications
S212
Is "Pressure" Marked?
NO
YES
S214
Extract Data of Traps for Marked Pressure
to Step S216

FIG.32A

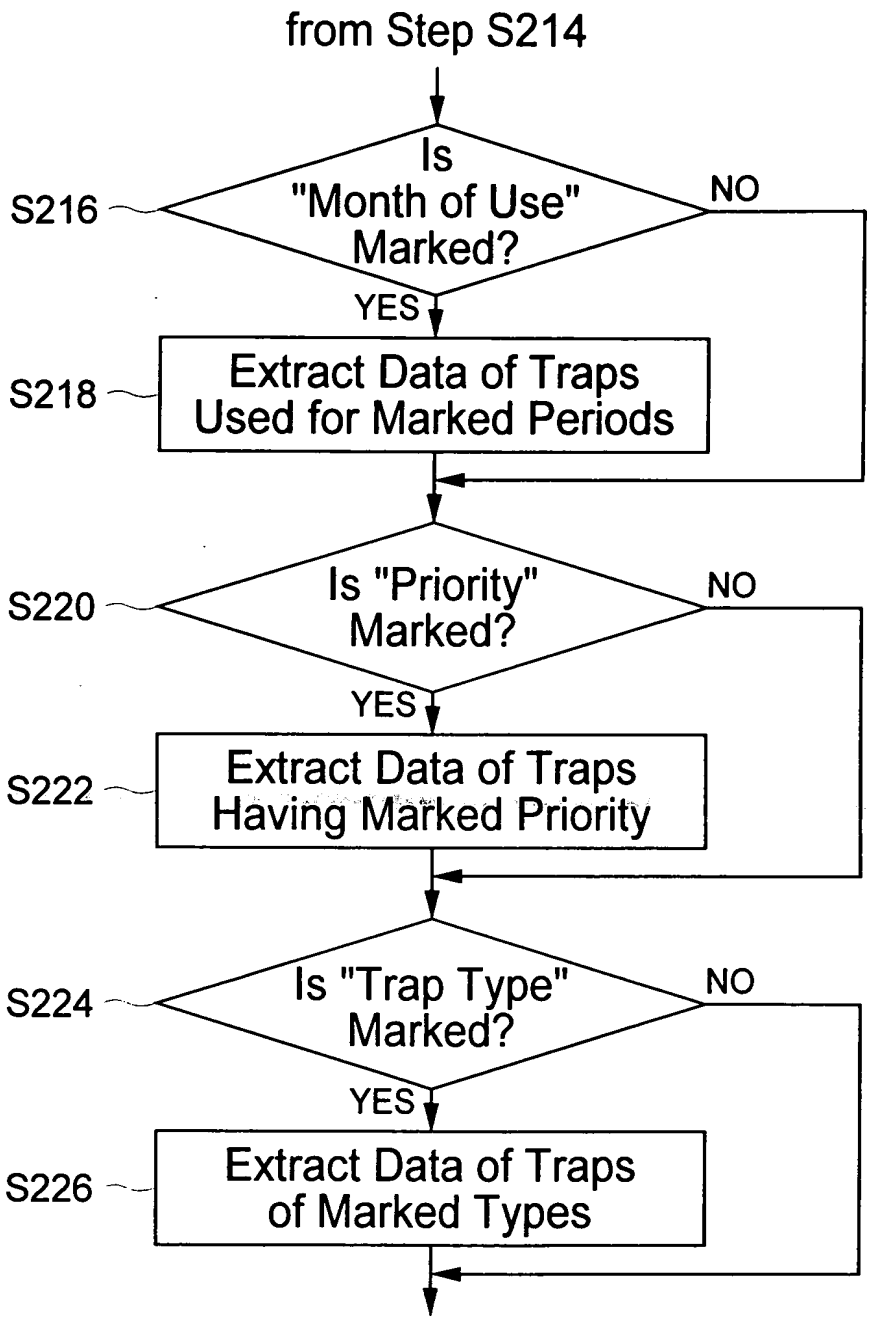
from Step S214
S216
Is "Month of Use" Marked?
NO
YES
S218
Extract Data of Traps Used for Marked Periods
S220
Is "Priority" Marked?
NO
YES
S222
Extract Data of Traps Having Marked Priority
S224
Is "Trap Type" Marked?
NO
YES
S226
Extract Data of Traps of Marked Types

FIG.32B

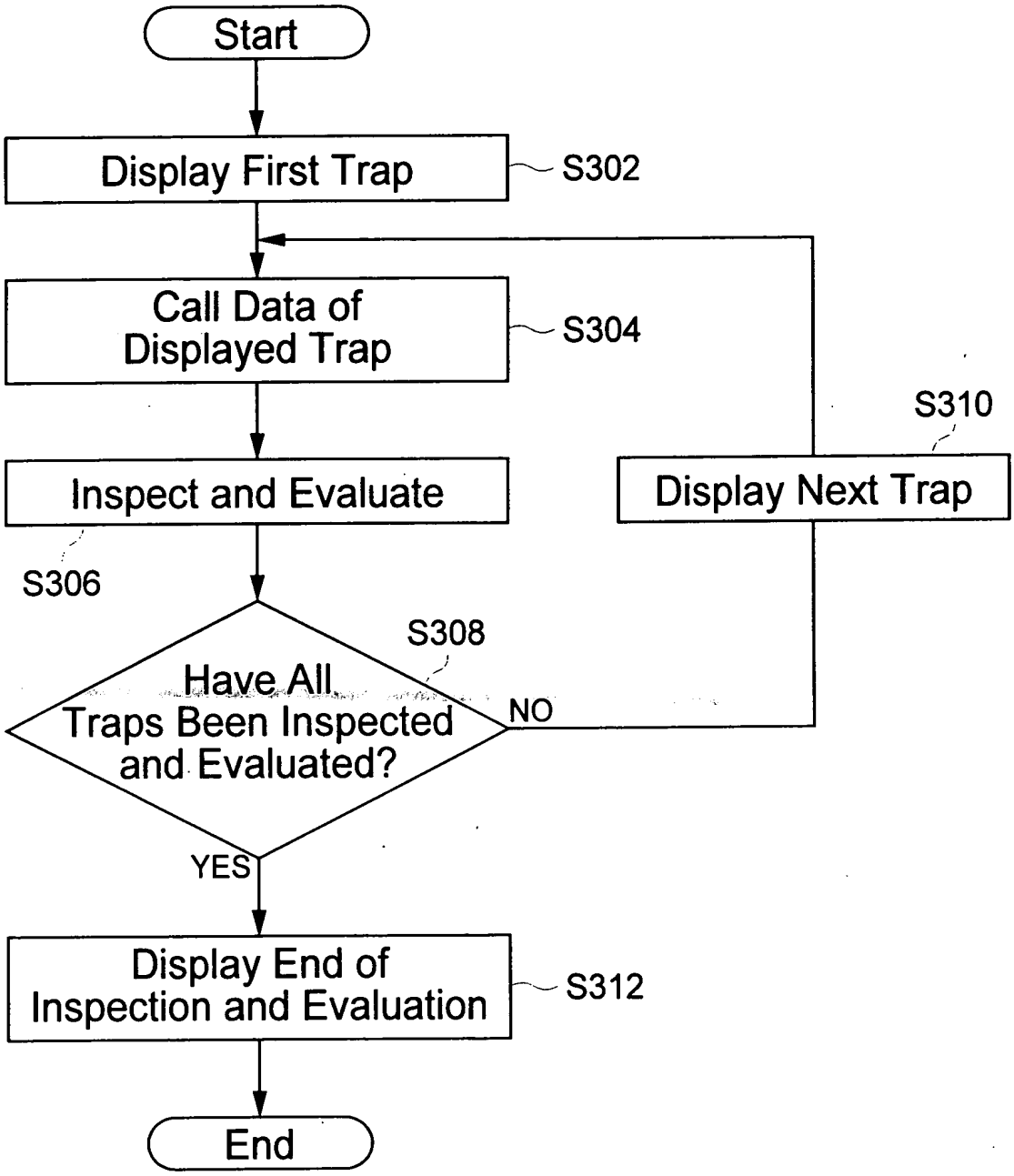
Start
Display First Trap
S302
Call Data of Displayed Trap
S304
Inspect and Evaluate
S306
Have All Traps Been Inspected and Evaluated?
S308
NO
YES
Display Next Trap
S310
Display End of Inspection and Evaluation
S312
End

FIG.33